ADMINISTRATION REPORT

OF

THE GOVERNMENT MUSEUM, MADRAS
THE NATIONAL ART GALLERY, MADRAS
THE GOVERNMENT MUSEUM, PUDUKKOTTAI

AND

THE CONNEMARA PUBLIC LIBRARY (EXCHANGE SECTION), MADRAS

FOR

1961-62

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GOVERNMENT OF MADRAS
1964

PRINTED BY THE DIRECTOR OF STATIONERY AND PRINTING, MADRAS, ON BEHALF OF THE GOVERNMENT OF MADRAS
1964

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ADMINISTRATION REPORT OF THE GOVERNMENT MUSEUM, MADRAS, THE NATIONAL ART GALLERY, MADRAS, THE GOVERNMENT MUSEUM, PUDUKKOTTAI AND THE CONNEMARA PUBLIC LIBRARY (EXCHANGES SECTION), MADRAS, FOR THE YEAR 1961-62.

I. Government Museum, Madras.

GENERAL.

Distinguished visitors.—The following were the distinguished visitors who visited the Government Museum, Madras, and the National Art Gallery, Madras, during the year under report :—

(1) Dr. Donough O'Brien, M.D., Associate Professor of Paediatrics, Colorado, U.S.A.

(2) Dr. Yose Louis Lane, Counsellor, Mexican Foreign Service.

(3) Dr. Guillarmo, Bamos Uriarte, Sub-Director of Trade.

(4) Mr. G. Arub, Interpreter, Mexican Embassy, 136, Golf-links, New Delhi.

(5) Dr. Alfradox Garrillo, Professor of Philosophy Zuit, Equador.

(6) Mr. N. S. Petkir, Bulgarian Painter.

(7) The staff of the All-India Radio, Madras.

(8) Mr. Goda Kombara, Archaeological Commissioner, Edinburgh Crescent, Ceylon.

(9) Mr. Wladyobew Grzid Zirlsia, Secretary-General for Polish National Commission, UNESCO.

(10) Bulgarian Folk Music and Dance Troupe.

(11) Mr. J. J. Prath, Deputy Director, Commonwealth Office of Education.

(12) Mr. J. F. Hilliks, Secretary, Commonwealth Education Conference, Canada.

(13) Federal Minister of Education, Nigeria and Leader of the Nigerian Delegation.

(14) Minister of Education, Federation of Malaya and Leader of the Malayan Delegation.

(15) Sir Allan Brown, Deputy High Commissioner of Australia in London and Lady Brown.

(16) Minister of Education, Eastern Nigeria.

(17) Minister of Education, Western Nigeria.

(18) Minister of Education, Northern Nigeria.

(19) Mr. S. Ghosh, Member of the Estimate Committee of Maharashtra Legislature.

(20) Dr. Phill Gerhard Meyer, Director-General of the State Museums of Berlin.

(21) Dr. F. E. Zeuner, Director of the Institute of Archaeology, London University.

(22) Sir Archibald Nye, Ex-Governor of Madras.

(23) Dr. H. J. Baba, Chairman, Atomic Energy Commission.

All these distinguished visitors were received, and taken round the Museum, by the Superintendent, Assistant Superintendent and the Curator for Art and Archaeology.

Special exhibitions.—The following special exhibitions were arranged during the year under report at the Government Museum, Madras :—

(1) Glass;

(2) Electrolytic treatment of Bronze images;

(3) Sandalwood;

(4) Insectivorous plants;

(5) Mica;

(6) Coins of the Mysore Sultans—Hyder Ali and Tippu;

(7) Medals issued by the East India Company;

(8) Modern Paintings;

(9) Reproductions of Tagore's Paintings;

(10) Sea lion; and

(11) Dolls illustrating the Dances of India.

Due publicity was given to these special exhibitions in the local dailies through the Director of Information and Publicity. They served to focus public attention on some of the recent acquisitions of the Museum.

Museum Demonstrations to High School Teachers.—Demonstrations to the teachers of the local high schools were conducted in the Museum galleries in two batches during the months of November and December 1961 for the benefit of teachers of the various local high schools on Saturdays. Fifty-three teachers attended these demonstrations. These demonstrations enable the teachers in their turn to guide their pupils.

Loan of Paintings to Schools.—The scheme of circulating selected sets of paintings of the Thanjavur, Mughal, Rajasthani, Kangra, and Delhi Schools of Paintings, mostly of 18th and 19th centuries to schools in Madras State was continued during the year. Sixteen

schools were benefited by this scheme. The paintings will be received back from the schools for redistribution after temporary exhibition in the respective school premises for a period of six months.

Children's Gallery.—As mentioned in the previous year's report the Children's Gallery, consisting of attractive illuminated displays on one side of the Mezzanine floor above the Geology Gallery is one of the outstanding features of the recent developments in the Museum. This has improved in its scope during the year, and it is proposed to enlarge, and develop it more fully during the Third Five-Year Plan period when the proposed new building is expected to be constructed. An illuminated case displaying dressed dolls illustrating the various classical dances of India was added to the Children's Gallery during the year.

Audio-Visual-Aids.—During the year 2,000 sets of attractive colour picture post-cards of six common flowers of Madras were printed similar to the picture post-cards of common birds of Madras printed earlier. These are proving to be very popular. The sale of picture post-cards of bronze images, and of common birds of Madras, two colour reproductions of original paintings of the traditional South Indian School in the National Art Gallery, sets of electroplated metal casts of coins illustrating the history of Indian Coinage, and miniature bronze replica of the world famous Natesa from Tiruvelangadu (exhibited in the National Art Gallery) was continued during the year as part of the Museum's Audio-visual aid programme. These have proved immensely popular, especially among schools and small museums in the country. The sale of photographs of important exhibits in the Archaeological Galleries was also continued during the year.

Special lectures.—Three lectures on the Teaching of General Science under the auspices of the Extension Service of the Teachers College, Saidapet were delivered in May 1961 by the Superintendent, Assistant Superintendent and Curator for Chemical Conservation. Lectures and conducted tours round the galleries to the students of the M.A. Degree Course in Archaeology of the Madras University were given by the Superintendent, Assistant Superintendent and Curators for Archaeology, Anthropology, Numismatics and Chemical Conservation.

Besides the above, the Superintendent served as a visiting Professor in Museology and delivered a course of three lectures to the students of the Diploma Course in Museology of the Baroda University and also acted as an external examiner in Museology for the Diploma examination of the Baroda University.

Tours.—In addition to the various sectional tours undertaken by the Curators, the Superintendent undertook a tour of Pudukkottai in October 1961 to inspect the Government Museum,

Pudukkottai. He went to Padmanabhapuram in Kanyakumari District in November 1961 to study and submit a report embodying proposals for the reorganization and improvement of the Museum there. The Superintendent also attended the Conference of Asian Archaeology held in connection with the Centenary Celebrations of the Archaeological Survey of India in New Delhi in December 1961 and actively participated in its deliberations.

Central Advisory Board of Archaeology.—The Superintendent attended the meeting of the Central Advisory Board of Archaeology which was held along with the Centenary Conference at New Delhi in December 1961.

Central Advisory Board of Anthropology.—The Superintendent attended the Third Meeting of the Central Advisory Board of Anthropology held at New Delhi on 9th April 1960, as a representative of the Madras State.

Central Advisory Board of Museums.—The Superintendent attended the meeting of the Standing Committee of the Central Advisory Board of Museums on 2nd November 1961 at New Delhi, as the representative of the Madras State.

Other Committee Meetings.—As the nominated official member, the Superintendent attended the meetings of Small Scale Industries and Handicrafts Board held at Coimbatore, Guindy and at Madurai during the year. He also attended the meeting of the Advisory Committee of the Vedanthangal Birds Sanctuary at the Collector's Office, Saidapet on 30th March 1962.

Museum Committee.—The Superintendent convened a meeting at the Secretariat in October 1961 and another in the Museum on 3rd February 1962.

Special Committee of the National Art Gallery.—Two Meetings of the Special Committee of the National Art Gallery were convened during the year to select and acquire paintings, and modern sculptures for the National Art Gallery.

Exchanges.—Twenty-four paleoliths, twelve neoliths including iron implements, on burial urn, one sarcophagus and one megalithic burial pottery were sent to the National Museum, New Delhi in exchange for a large plaster cast of the Mathura Buddha.

Twelve paleoliths, twelve neoliths and twelve megalithic pottery were sent to the M.S. University, Baroda, in exchange for four potshreds of Rengmahal, six potshreds of Somnath, six potshreds of Somnath R. B. Type, one large Samain ware, twenty-three Gujarat microliths, sixteen series of Maheswar paleoliths, and twelve pieces of the Narbada valley paleoliths.

Notable additions to the collections of the Museum.—A stone pillar carrying the inscription of the great Pallava King Mahendra along with three others of the same period was a noteworthy

acquisition to the archaeological section. Another notable addition is the plaster replica of the Mathura Buddha got in exchange from the National Museum, New Delhi. Stone sculptures from Rasipuram in Pudukkottai division showing the transitional phase of the Pallava-Chola period formed another series of the notable acquisitions.

A glass Dholak, a small drum and the Thanthipanai (Pot musical instrument) together with six flesh reproductions of the busts of the fossil men and a large earthernware sarcophagus were the chief acquisitions to the Anthropology section. A white-browed gibbon, a pair of Amhersts' pheasants and a Sea lion were among the notable additions to the Natural History Galleries during the year under report.

Reorganization and Development of the Museum.—The scheme for the re-organization and development of the Museum with Central financial aid was continued to be implemented during the year. Modernization of the Economic Botany Gallery, and the Metalware Gallery was completed. An additional block to the Chemical Laboratory was constructed and the necessary furniture and fittings and other equipment for the Laboratory were acquired. The construction of a Natural History Block, and a Bronze Gallery was continued during the year and the buildings are now nearing completion. Several important items of equipment were also acquired with Central grants. About 122 signboards were prepared and fixed up in the various sections of the galleries throughout the Museum indicating the main subdivisions to help the visitors to the Museum in going round the galleries intelligently.

Museum Posters.—A new design was prepared for reprinting the Museum poster with a view to make it look attractive and arresting. Government were pleased to accord sanction for the printing of 6,000 copies. The work has been entrusted with the Director of Information and Publicity and the posters are expected to be printed and released shortly.

Copying of Murals from temples.—The scheme of copying murals from temples in South India was continued during the year, and the artist, Sri P. L. Narasimhamurti who had been commissioned for the purpose, copied two panels each from the temples at Tiruvarur and Rameswaram.

Publications.—The Museum continued to maintain its standard as a pioneer research institution in the State, particularly in the fields of Archaeology and Natural History.

The following publications were brought out by the Museum during the period under report :—

(1) Scripts in and around India by V. Kannaiyan.

(2) Kalaichelvangal (A guide to the Archaeological Galleries in Tamil) by R. Nagaswamy.

(3) Guide to the Sankes exhibited in the Reptile Gallery by S. T. Satyamurti (Tamil Edition).

The publications mentioned below are in the Press and they are expected to be released shortly :—

(1) Handbook of the Madras Museum;

(2) Nolamba sculptures in the Madras Museum;

(3) Bronzes of South India;

(4) Pazhangala Panpadum, Pazhankudikalin Panpadum;

(5) Catalogue of Musical Instruments; and

(6) Guide to the Lizards, Crocodiles, Turtles and Tortoises in the Reptile Gallery.

These publications have greately enhanced the prestige of the Museum and have helped in establishing further exchange relationships with foreign institutions.

Seminar on Architecture in relation to the Museum.—The Superintendent participated in a Seminar on Architecture organised by the U.S.I.S. and delivered a lecture on " The Museum in India with special reference to Architecture " on 10th August 1961.

Broadcasts.—The Superintendent broadcast the following talks from the All-India Radio Station at Madras during the year under report :—

(1) Birds as Emblem; and

(2) Sex and Religion.

Popular Articles.—The Superintendent contributed the following articles to the Journals mentioned against each during the year under report :—

(1) Giants of the Deep—The Mail.

(2) Riddle of the Red Tide—The Mail.

(3) Intruders from Outer Space.—The Hindu.

(4) Role of Museums (in furthering archaeological studies)—The Hindu.

(5) Reptilian cannibals—The Hindu.

(6) Modernising the Madras Museum—Madras Information.

(7) Recent Improvements at the Madras Museum—Journal of Indian Museums.

(8) The Largest Museums of the World—Annual number " Kalai ".

(9) Our wild life—" Kataka ".

(10) Animals in Art and Literature—" Kataka ",

The Superintendent also prepared an exhaustive Bibliography of 100 books and periodicals on Museology and submitted the same to the Secretary of the Central Advisory Board of Museum for circulation to the Museums of the country.

Wild Life Week.—The Museum afforded the necessary facilities for holding the Annual Exhibition of Wild Life Paintings and photograph arranged by the State Wild Life Officer in the Centenary Exhibition Hall. The Superintendent also addressed a meeting at the Guindy Park held in connection with the Wild Life Week Celebrations.

Loan of Exhibits in connection with the Centenary Celebrations of the Archaeological Survey of India and the Silver Jubilee of the 'Kalakshetra' at Adyar, Madras.—Some of the finest specimens of the archaeological collections were loaned to the Archaeological Survey of India for its centenary celebrations held in December 1961. They included the Bhattiprolu relic casket, Nagapattinam Buddha and similar select ones.

In connection with the Silver Jubliee Exhibition at Kalakshetra, Adyar in Madras, select paintings, bronzes and wood carvings were loaned which added to the importance and attractiveness of the Exhibition.

Facilities to Scholars and Research Workers.—As usual, all necessary facilities were extended to scholars and research workers in studying the museum material in the several sections of the Museum.

Sale of Tourist Literature.—The sale of a selected series of booklets issued by the Government of India Tourist Department at the Museum sales counter was continued during the year.

Centenary Exhibition Hall.—The following exhibitions and meetings were held at the Hall during the year under report :—

Serial number and name of the Party or Institution engaging the Centenary Exhibition Hall. (1)	Period of engagements. (2)	Amount collected towards rent. (3) RS.	Purpose. (4)
1 The Progressive Painters Association, Government School of Arts and Crafts, Madras-3.	1st to 20th April 1961.	100	Exhibition.
2 Kerala Arts Centre, Madras-8.	1st May 1961.	3	Meeting.
3 South Indian Society of Painters' III Trust Cross Road, Madras-28.	14th to 21st June 1961.	40	Exhibition.
4 M. Bhattacharya, Government Epigraphist, Ootacamund.	13th to 18th August 1961.	30	Do.
5 The Branch Manager, 155, Mount Road, Madras-2.	6th to 18th September 1961.	65	Do.
6 K. A. Badsha, B.A., State Wild Life Officer, Royapettah, Madras-14.	15th to 16th September 1961.	10	Do

Serial number and name of the party or Institution engaging the Centenary Exhibition Hall. (1)	Period of engagements. (2)	Amount collected towards rent. (3)	Purpose. (4)
		RS.	
7 The Exhibition Officer, All-India Handicrafts Board.	24 th October to 9th November 1961.	85	Exhibition.
8 Art Purchase Committee, New Delhi.	11th to 16th November 1961.	30	Meeting.
9 Yugoslav Embassy, 13, Sundar Nagar, New Delhi.	11th to 19th November 1961.	40	Exhibition
10 Indo-Soviet Cultural Society, 199, Mount Road, Madras-2.	9th to 18th December 1961.	50	Do.
11 Deputy Director, All-India Handicrafts Board, Madras-2.	20th to 30th December 1961.	55	Do.
12 The South Indian Society of Painters, Madras-28.	5th to 15th January 1962.	50	Do.
13 The Convener, Veekshana Artists Forum, Mount Road, Madras-2.	25th to 28th January 1962.	20	Seminar.
14 S. Ramalingam, 43, Sowrimuthu Street, Madras-2.	19th to 23rd January 1962.	25	Exhibition.
15 The Secretary, National Students Conference, C/o Presidency College, Madras-5.	29th January 1962.	5	Meeting
16 Hony. Secretary, Progressive Painters' Association, Government School of Arts and Crafts, Madras-3.	11th to 25th February 1962.	75	Exhibition.
17 Hony. Secretary, Archaeological Society of South India, Madras-8.	5th to 8th March 1962.	12	Meeting.
18 The Hony. Secretary, Madras Arts and Crafts Teachers' Association.	3rd to 6th March 1962.	20	Exhibition
19 The Chairman, All-India Sculptors' Association, 491, Cadell Prabha Devi, Bombay-28.	20th to 31st March 1962.	60	Do
	Total ..	675	

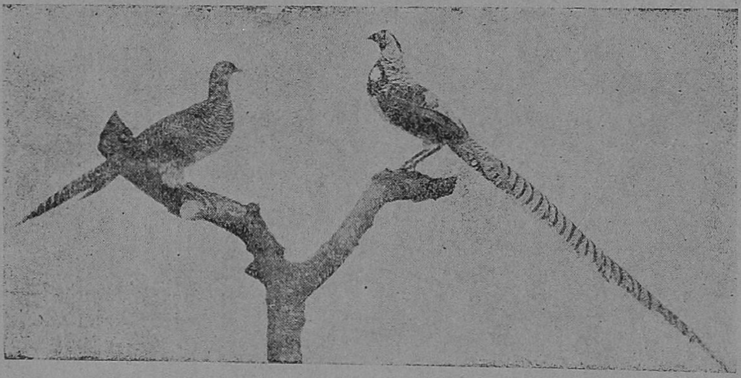
WORK IN THE SECTIONS.

Zoology.

New additions to the collections.—The following specimens were added to the collections during the year under report :—

Invertebrates.— A collection of Coelenterates, Crabs and Gastropod shells of large size, Starfishes, Insects and different specimens relating to Lac and Silk.

Fishes.—One Coffer fish, *Ostracion gibbosus.*



1 Amherst Pheasants.

Reptiles—

(1) One Chameleon, *Chamaeleon zelyanicus.*

Birds—

(1) One Racket-tailed Drongo, *Dicrurus paradiseus.*

(2) One Roseate tern, *Sterna dougalli.*

(3) One Crab-plover *Dromas ardeola.*

(4) Two Amherst pheasants, *Chrysolophus emherstiarc* (Male and Female).

Mammals—

(1) One White-browed Gibbon, *Hylobates hoolock.*

(2) One Common House Rat, *Mus rattus.*

(3) One Sea lion, *Zalophus californianus.*

(4) One Black-Buck or Indian Antelope, *Antilope cervicapra.*

(5) One Small Indian Civet, *Viverricula indica.*

(6) One Flying Squirrel, *Petaurista phillipensis.*

(7) One tanned skin of Sea lion.

Additions to the galleries.—The following exhibits were added to the Zoological galleries during the year under report :—

Invertebrate Galleries.—A good specimen of *Physalia*, a gastropod shell (*Trochus niloticus*) and the different products of Lac.

Fish Gallery.—One stuffed and mounted specimen of Coffer fish, *Ostracion gibbosus.*

Reptile Gallery—One Stuffed and mounted specimen of Chameleon, *Chamaeleon zeylanicus.*

Birds Gallery.—A stuffed and mounted specimen of the Backet-tailed *Drongo, Dicrurus paradiseus.*

Mammal Gallery—

(1) The White browed Gibbon, *Hylobates hoolock.*

(2) The Common House rat, *Mus rattus.*

(3) The Sea lion, *Zalophus californianus.*

(4) The Black-Buck or Indian Antelope, *Antilope cervicapra.*

(5) The Small Indian Civet, *Viverricula indica.*

(6) The Flying Squirrel, *Petaurista phillipensis.*

Skeleton Gallery.—Dentition of the rabbit mounted on a black-painted background.

Improvements to the galleries—Invertebrate Galleries.—(*a*) Eleven explanatory diagrams in the Crustacean gallery wall cases which were old and discoloured were completely redrawn with Indian Ink and re-exhibited.

(*b*) One sloping case and one wall-case which were spoiled by rainwater were completely repainted and all the exhibits inside them were remounted on varnished pedestals and re-exhibited.

(*c*) The photograph illustrating the anatomy of the clam was rephotographed and after binding, it was re-exhibited inside a wall case containing gaint clams.

(*d*) One sloping case containing the Lac and its products was transferred to this gallery from the Economic Botany Section.

(*e*) The detached appendages of the coconut crab were fixed properly, and the specimen remounted in the jar and exhibited in the galleries.

(*f*) Five large-sized wooden labels which were fixed by means of long iron rods were removed and fresh painted labels were fixed to the tops of the cases.

Fish Gallery.—Ten fishes were renovated and re-exhibited in the gallery. The broken glass panes of some of the cases were replaced by fresh ones.

Reptile Gallery.—The construction of the new built-in wall cases for exhibiting spirit-preserved snakes inside large jars was completed. These spirit-preserved specimen jars were displayed on suitable pedestals which were fixed to the back of the cases by means of thick brass clamps.

Bird Gallery.—In continuation of the scheme for modernization commenced last year, six more newly built-in cases were added and specimens arranged in them. Three new diorama cases were also completed—the Jungle Fowl, the Pea Fowl and the Brahminy Kite—with attractive painted backgrounds. Eleven specimens of ducks and six specimens of owls were renovated and re-exhibited. The beaks and feet of the birds exhibited inside the modernised show cases were touched up to make them look fresh. Separate wooden labels, written in paint, were fixed to the painted pedestals of birds exhibited inside the six modernised show cases.

Mammal Gallery.—The specimens of Loris, Hyaena, Dolphin, Nilgiri Wild Goat, Hedgehog, young one of the pig, Wild Boar, Bonnet monkey, Lion-tailed monkey and the skulls of the Wild Cat, Malabar Squirrel, Leopard Cat and Bear were all renovated and re-exhibited in the gallery. The specimen of the Sloth Bear in the standing posture was given renovatory treatment with hair-dye and re-exhibited inside the case after it was repainted.

General Galleries.—Nearly half of the figures fixed to the Evolutionary tree were provided with suspended labels. The specimens of *Calotes* illustrating Courtship colouration were renovated and re-exhibited. The oily patches found on the Kangaroo specimen were removed by cleaning with Benzene. The panellings of all the four small dioramas in the 'Foreign Animals Gallery were repainted.

Old signboards were removed and they were replaced by new ones. Some more sign boards were also added to guide the visitors properly round the different sections of the gallery.

All the fire buckets and their lids were got repainted. Minor masonry repairs were also attended to in different galleries.

A routine weekly checking of the galleries by the Curator, dusting of interiors of show cases, cleaning of glass panes of show cases, provision of naphthalene balls, replacement of broken glass panes with good ones, rectifying minor defects, refilling, bladdering and painting of the gallery specimen jars and provision of Lysol-camphor plugs and powdered naphthalene for the gallery insect cabinets and exhibition boxes, were continued during the year as usual.

Labelling.—(i) One hundred and twenty five boxes in the Invertebrate Gallery containing corals and shells were relabelled and a coating of wax mixed with naphthalene was given so as to prevent the new labels from getting moth-eaten. About forty labels of the specimens in the reserve collection were replaced with fresh ones;

(ii) About thirty shells exhibited in the Invertebrate Gallery were provided with new labels written in white paint on black background;

(iii) Labels of eleven ducks and five owls in the Bird Gallery were touched up;

(iv) A descriptive label was provided for the Demioselle Cranes;

(v) Descriptive labels and distribution maps were put up for the newly exhibited specimens of the White-browed Gibbon and the Sea lion.

Preservation of Reserve Collection.—Personal attention was paid by the Curator to the thorough cleaning and replenishing with fresh preservatives (rectified spirit or Formalin as the case may be), of the large number of Reserve collection specimen jars stored up in the almirahs in the section. Old washers of some of the kilner jars were replaced with fresh ones. The specimen bottles in twenty-two almirahs containing reserve collections of Protozoa Porifera, Coelenterata, Annelida, Crustacea, Insecta, Arachnida, Mollusca, Echinodermata, Fishes, Amphibians and Reptiles were personally attended to by the Curator and labels

written in waterproof Indian Ink were pasted on the jars wherever the old labels were found discoloured and moth-eaten. Sealing up of the almirahs containing spirit-preserved specimen jars after each preservatory treatment, was regularly done during the year to ensure greater security. The cabinet drawers and boxes containing reserve collections of dry-preserved insects were systematically provided with fresh Lysol and camphor plugs and powdered naphthalene and all the glass panes of these insect cabinet drawers were thoroughly cleaned while giving the preservatory treatment to the specimens. Provision of naphthalene balls and spraying with D.D.T. were carried out systematically for the cupboards and drawers containing reserve collection boxes of dry preserved shells, corals, etc. Reserve collections of the bird skins were examined and preserved in almirahs and provided with gammaxine and naphthalene powder.

Research.—The Superintendent completed his research on South Indian Lepidoptera and finalised his typescript on the subject for publication as a Bulletin. He has now commenced systematic work on South Indian Amphibians. The Superintendent also prepared a Guide to the galleries of Foreign Animals, Skeletons and Amphibia and completed the typescript of the same, which is now ready for the Press. The Curator continued his research on the Family Acrididæ.

Publication.—The Tamil version of the guide to the snakes in the Reptile gallery was published. The Superintendent completed his manuscript of the English Guide to the Reptiles other than snakes and submitted it to the Press for publication.

Educational Work—Special Exhibitions.—A special exhibition of the Sea lion was arranged during the year.

Facilities to Research workers.—(i) Mr. K. G. Adiyodi, Head of the Department of Zoology, St. Joseph's College, Calicut, examined snakes in the Reserve collection in connection with his research work.

(ii) Mr. M. Arputhanathan, Hartley College, Point Pedro, Ceylon was furnished with particulars regarding *Odontosyllis gravelyi* Fauvel. in connection with his research work.

(iii) Mrs. Charniarix-Cotton, Professor at Sorbonne University, Paris, who is a specialist on Crustaceans, examined the specimens of Crustaceans in the Reserve collections.

(iv) Mr. Wazirani of the Zoological Survey of India examined specimens of beetles in the reserve collection in connection with his research work.

(v) Mr. Lumba, Curator, Zoological Survey of India was provided with necessary information regarding the construction of small dioramas.

(vi) Professor Zeuner, Director of the Institute of Archaeology in London examined the specimens of butterflies in the collection.

(vii) Mr. Maligi of the Zoological Survey of India examined crabs in the reserve collection in connection with his research work.

Tours.—The Curator undertook a tour to Pamban, Krusadai and other neighbouring islands and collected marine Invertebrate specimens.

Photographs added.—Sixty-one photographs were taken in the Zoology section to be used both for publications and the Sectional Album.

Plans for the year 1962–63.—(*a*) *New additions to the collections.*—It is proposed to add fresh parasities, bird skins, mammals and fishes to the existing collections;

(*b*) *Additions to the galleries.*—Fresh specimens of crabs, fishes and mammals like Sambar, Four-horned antelope, Rhesus macaque, etc., which are not represented in the collections will be added to the gallaries.

(*c*) *Improvements.*—Four units of modernised show cases will be constructed in the Bird Gallery in continuation of the present scheme of modernisation in this gallery. The construction of the new building is expected to be completed and arrangements will be made to organise additional galleries of Economic Zoology and foreign animals in this new extension.

(*d*) *Preservation.*—The usual routine preservatory treatment will be continued and the study collections of bird skins will be expanded.

BOTANY.

New additions to the collections—External Morphology and Systematic Botany.—Specimens of Sandalwood showing its parasitic habit on the roots of *Todalia asiatica* and its products such as chips, paste, powder and oil, a composite fruit of ***Pandanus** odoratissimus* or the Indian Screw-Pine, a tunicated bulb of *Allium cepa* and its median longitudinal section, the onion here being of the large size Bellary Onion variety, *Capscium grossum*, the Bell-peper of the large Chinese giant variety and Ratan (*Calamus rotang*) and its strips formed the chief additions.

Economic Botany.—Samples of millets, pulses, oil-seeds and oils, condiments and spices, cinchona and its products, coffee and rubber, dyes and tanning materials and drugs and good illustrative photographs on them were added.

Work in the Galleries—Additions to the galleries.—External Morphology and Systematic Botany.—Exhibits on some insectivorus plants and Sandalwood and its products were added to the gallery.

Economic Botany.—Samples of millets, pulses, oil-seeds and oils, condiments and spices, drugs and narcotics, dyes and tans, coffee and rubber, gums and resins, and rattan cane together with good illustrative photographs on them were the principal additions.

Improvements to the Galleries—External Morphology and Systematic Botany.—There was a thorough re-arrangement of the exhibits and the gallery. The vertical show cases were partitioned by means of plywood and their bottom inclusive of the sloping or desk portions were lined with cloth. The inside of the cases were painted with pale or light green. A separate show-case was designed and made for the exhibit of the cluster of bamboo rhizomes and the two bamboo toy dogs, and it was located in a suitable place. The cases containing different species and varieties of bamboo were also cloth-lined and distempered with pale green colour. The exhibits were touched up and neatly labelled. The two cross-sections of Teak (*Tectona grandis*) and Rose-wood (*Dalbergia latifolia*) stem showing annual growth were suitably touched up and exhibited in two specially made wall show-cases with internal illumination. The historical events marked on the Teakwood cross-section were touched up, and their Tamil equivalents were also painted to make it popular. The four Palampore cases containing timber specimens were painted inside with pale green colour and fixed suitably between the Teak and Rose-wood growth specimens. Their case-labels were also renewed with bilingual (English and Tamil) labels. The map of the Madras State showing the distribution of timber-yielding trees was touched up, and exhibited suitably. The relief map of India was also touched up, and displayed at the entrance. The wall cases housing the bark of the " Mahua " tree and the " Indian hemp " (*Cannabis sativa*) were touched up, and the exhibits were prominently put up. The models illustrating cross pillination in Salvia by insects, especially the bee, and fertilisation in flowers were attractively touched up, and displayed. The specimens, wet and dry preserved and the models and photographs of " Insectivorous plants " were put up prominently and these have been arresting the attention of visitors. The sign-boards, case and exhibit labels were renewed attractively, and the contents of the specimen jars were periodically replenished by fresh materials. The charts on botanical classification were sent to the Press for reprinting. The last, though not the least item of imrpovement was the thorough touching up of the skeleton of the " White Sandalwood " (*Santalum album*) fixed at the entrance to the section from the stair-case. Arrangements were made to protect it by guarding it by a wooden barricade.

Economic Botany.—Modernisation of this Gallery was completed and the entire series of nineteen modernised built-in-cases commencing from those containing the ' Fibres " upto those illustrating the valuable and edible sea-weeds and paper manufacture were duly installed along the full extent of the walls on all sides in this gallery. Exhibits on plantation crops such as cotton, sugarcane, coffee, tea and cocoa, rubber, gums and resins, food crops such as major cereals like paddy and wheat, and the minor millets and pulses, condiments and spices, drugs and narcotics, dyes and tans, cork and cork industry, paper manufacture and sea-weeds, valuable and edible, were attractively displayed with suitable illustrated labels and photographs inside the built-in wall cases the backgrounds of which were painted pale or light blue. The cases have been provided with concealed fluorescent lighting and arrangements are being made to provide them also with attractive cream coloured taekwood cut out labels. The Economic Botany gallery now has the largest series of modernised show cases which by their illuminated contents attract a large number of visitors. The exhibits on bamboo and ratton, coconut and palmyra, lacquer wood, and red sandalwood and the miscellaneous series have been displayed in a central row of sloping show cases. These will, in due course be replaced by modernised show cases.

Labelling.—Almost all the labels were renewed in English and Tamil attractively, and it is hoped to complete the work shortly.

Preservation of Reserve Collections—The Herbarium was periodically examined, and preserved from attack by pests. 2,000 herbarium specimens were repoisoned, and the remaining will be systematically treated. The reserve specimens in jars, and in the dry state were looked after carefully and were refilled with fresh preservatives and re-sealed with paraffin or bladder whereever necessary.

Research.—Consequent on the re-organization of the Botany Galleries, a Guide to them has become immediately necessary. This is specially so with regard to the Economic Botany Gallery which has been completely reorganised. Attempts are therefore being seriously made to take up revision of the " Catalogue of the exhibits in the Economic Products Section " which was compiled as early as 1921. A Guide to the Gallery on " External Morphology and Systematic Botany " will be taken up soon after the reorganisation of the section is completed. Revision of the bulletin by P. V. Mayuranathan on the "Flowering Plants of Madras City and its immediate neighbourhood " published in 1929 is also actively engaging attention. Many changes in the vegetation in and around Madras have since taken place.

Publications.—Six attractive coloured picture post-cards of " Some Common Madras Flowers " were got up similar to those of the " Madras Birds ". The flowers are named bilingually (i.e.),

English and Tamil, and are sold in attractive envelopes in sets of six priced at Rs. 1·10 nP. per set. 2,000 copies of these sets (each set consisting of six picture postcards) have been printed. Illustrated materials for the " Handbook of the Madras Museum " (which is now in the Press) were furnished.

Special exhibitions.—A special exhibition on " Sandalwood " was held in April 1961 and another on " Some Insectivorous Plants " was held in December 1961 and it was very popular . It remained on view to the public for over two months.

Lectures.—A lecture on the " Teaching of General Science under the auspices of the Extension Service, Teachers' College, Saidapet, was delivered on 17th May 1961. A talk and conduced tour round the galleries were given on 15th November 1961 to the students of M.A. Degree Course in Archaeology.

A lecture demonstration class to the teachers of the high schools in Madras was conducted on 2nd December 1961.

Facilities to Research Workers and others.—Training in Gallery work and other aspects of Museology was imparted to the Assistant Curators, Gallery Guides, Technical Assistant of the Government Museum, Pudukkottai and the Science Consultant, Extension Services, Teachers' College, Saidapet.

Besides the above, the usual facilities were afforded to Research workers and others.

Photographs added—External Marphology and Systematic Botany :—

1 Bomboo rhizomes	1
2 Sandalwood Tree	1
3 Insectivorous plants	6
4 Cross-sections of the stems of Rose and Teakwood.	2
Total ..	10

Photographs added—Economic Botany :—

1 Cotton	2
2 Sugarcane	4
3 Coffee	12
4 Rubber	20
5 Cereals	19
Total ..	57

Tours.—A tour to Pudukkottai was undertaken in September 1961 by the Assistant Superintendent, who is in charge of the Botany Section, to collect specimens of morphological interest.

The Assistant Curator and the Technical Assistant went on a trip to Ennur and Red Hills to collect Sundew and Bladder wort plants.

Plans for the year, 1962–63 :—(i) Morphology and Systematic Botany :—

(1) A chart on the "Evolutionary Tree of Plant Life" will be put up;

(2) Two murals on the "Evolution of Plant Life" and "Plant communities" will be attempted to be put up.

(3) Specimens illustrative of extenal morphology to replace the existing old ones and to supplement the displayed material will be procured and added;

(4) The Reserve and Reference Collections will be strengthened;

(5) The old herbarium collections will be replaced by fresh specimens. The existing herbarium will be strengthened and repoisoning of the specimens will be systematically taken up.

(6) Renewal of the labels, name-boards and preservatives will be systematically taken up and completed.

(7) The rearrangement of the gallery now in progress will be attempted to be completed;

(8) A few select "Dioramas" on "Plant Communities" will be attempted;

(9) The printed charts on the Botanical classification when received from the Press will be suitably put up in the systematic Botany Gallery; and

(10) A set of six coloured picture postcards on some common Madras Fruits will be taken up.

(ii) *Economic Botany*—

(1) Re-arrangement of the "common fibres" will be taken up and finished;

(2) Fixing up of teakwood cut-out letters to the modernised show cases will be done;

(3) Indents for the exhibits pending supply of by the Government Agricultural, Forest and Cinchona departments, and the Tea Board when received will replace wherever necessary the existing (displayed) exhibits.

(4) The catalogue of the "Economic Products Section" compiled in 1921 will, in the light of reorganization of the Section, be suitably revised.

(iii) The programme of 'special exhibitions', lecture-demonstrations to teachers of the high schools in the city, and lectures to college students will be carried on as usual.

Revision of the Bulletin by P. V. Mayranuathan on "The Flowering Plants of Madras City, and its immediate neighbourhood" will be attempted. Preparation of suitable handy illustrated "Guides" in English and Tamil to the exhibits in the Gallery of External Morphology and Systematic Botany will be started after the reorganization of the gallery is finished.

Geology.

New additions to the collections.—The following specimens were added to the collections during the period under report:—

Specimens of phlogopite mica and ruby mica were acquired for this museum as gifts from the Director, Geological Department, Trivandrum and the State Geologist, Industrial Estate, Guindy, respectively. Sri A. Bakthavachalu of Sembiam donated a specimen of red ochre to this museum. A specimen of fossil wood was sent to this museum by the Curator, Government Museum, Pudukkottai. A specimen of green opal was purchased from K. K. A. Adaikkappa Chettiar. The Geological map of India and the Geological map of Madras showing the mineral occurrences were purchased from the Geological Survey of India for exhibition in the Gallery. Twenty-four exhibits connected with pencil manufacture were transferred from the Botany Section to the Geology Section.

Additions to the galleries.—During the period under report, specimens of green opal, ruby, mica, phlogopite mica, spotted phlogpite mica and thin flakes of both spotted and unspotted phlogopite mica were added to the Mineralogy Gallery. Hornblende gneiss and biotite schist were added to the exhibits under Petrology. Nineteen specimens connected with pencil manufacture and eighteen iron ore specimens were added to the Economic Geology Galleries. Among the iron ores, six belong to magnetite, six to hematite and the remaining six to limonite. A photograph of pebbles faceted by the abrasion of wind-blown sand was added to the General Geology Gallery.

Improvements to the galleries.—A separate gallery showing the different stages in pencil manufacture was organised in the Economic Geology galleries. The interior of the desks in sixteen vertical cases were painted with glazeless water-proof paint in order to prevent them from being stained by the dirty rain water trickling from above and giving a patchy, unsightly appearance. The interiors of eight sloping cases were distempered. The miniature, plaster model of *Brontosaurus* sp. was painted and re-exhibited in the Gallery. Fifteen photographs under General Geology were re-pasted on a suitable background, rebound with glass and passepartout and re-exhibited in a more decent way. So too was the map showing "Ice ages of the past". As the photographs of "Gangotri glacier", "Gangotri Glaciers and Satopanth Peaks" and "Demolition of a rock-built temple by plant roots" exhibited

under General Geology were stained, fresh prints were taken, bound with a suitable background and re-exhibited. Seven photographs exhibited under Mica Mining were re-bound and re-exhibited as their binding was destroyed by insects. Two cellophane-bound photographs exhibited under South Arcot Lignite were glass-bound and re-ehxibited. Specimens of calcite, gypsum, clay, cement, manganite, sulphur, pyrite, vermiculite (two) and China clay (two) exhibited in the Economic Geology Section and the specimen of semi-pertrifed resin exhibited in the General Geology Section were bound in wooden trays and re-exhibited. The interior of each tray was also provided with a suitable background. The flexible sandstone was mounted on a painted plank and re-exhibited under Stratigraphy. The switch for the ultra violet bulb which went out of order was repaired and re-fixed. A new 125 Watt ultra violet bulb was fixed to the fluorescent unit as the old one had become less powerful. A wooden box was modified and fixed to the wall covering the main switch for the fluorescent unit and provided with a lock so as to prevent visitors meddling with the switch and spoiling the unit as a whole. Two broken glass panes in two sloping cases were replaced. Shades were provided for the lights in front of the two murals—Comet and Lunar Landscape so at to focus the light on them. The broken hinges in two desks were replaced. A desk in a vertical case which was not closing properly was repaired. The locks in all the cupboards under General Geology and Strartigraphy and all the locks in the sloping and table cases were lubricated with three-in-one oil and made to manipulate with ease. Some of the exhibits in the Economic Geology galleries were re-arranged and well displayed. The mineral exhibits were also rearranged and attractively displayed.

Labelling and preservation.—(1) The index label for South Arcot Lignite was painted afresh with a proper tamil equivalent and re-fixed in the gallery;

(2) The Gaint Ammonite fossil was provided with a new bilingual index label;

(3) Index-label for Mohs' scale of hardness was painted on wood and fixed to the table-case.

(4) Fresh descriptive labels were provided for Mohs' scale of hardness and Agate;

(5) Descriptive labels for Gold Extraction and Quartz which were stained and dirty were renewed;

(6) A chart for Gold Extraction was prepared with Indian ink and exhibited as the old one was patchy and ugly to look at;

(7) Nine bilingual sign boards were fixed to the walls in the gallery. They are as follows:—(*a*) Geology, (*b*) Petrology; (*c*) Palaeontology, (*d*) Mineralogy; (*e*) Economic Geology; (*f*) General Geology; (*g*) "No smoking"; (*h*) "Please maintain Silence"; and (*i*) "Please do not touch".

(8) Two hundred and ten labels in the various sections of the Geology Gallery were renewed and bilingual labels were provided wherever possible.

(9) Sixty-four unbound labels in the various sections of the gallery were glass-bound.

(10) Index cards were prepared for one hundred and sixty-five exhibits.

The routine work of dusting the show cases and specimens, cleaning the glass panes in the show cases, attending to minor repairs and provision of naphthalene balls were continued as usual during the period under report.

Research.—Twenty-seven mineral specimens and four rock specimens in the reserve collections were identified. Fifteen rock specimens were identified for the Anthropology Section.

Some of the labelled mineral specimens in the reserve collections which were kept in an haphazard manner were classified and arranged in wooden trays. Arrangements are being made to repair the ante-room at the far end of the Geology Gallery so as to acommodate the Curator's laboratory.

Educational work—Special Exhibition.—During the period under report, a special exhibition on Mica was organised.

Facilities to research workers and others.—(1) Facilities were afforded to Dr. Satya S. Sarkar, Geologist, Geological Survey of India, to study the Cretaceous ammonite specimens.

(2) Dr. Jayavelu from the Anatomy Department, Stanley Medical College was afforded facilities to study the South Arcot Lignite specimens.

(3) Specimens of red ochre and quartz were identified for Sri A. Bakkthavachalu from Sembiam and their uses were also explained to him.

(4) Two specimens, magnetite and rock-crystal, were identified for a villager from Chingleput. Their uses were also briefly explained to him.

(5) A specimen of milky quartz was identified for a person from Coromandal Engineering Company, Madras.

(6) The precious and semi-precious stones were shown to Sri C. Narayanaswamy from Bangarupalayam Sub-taluk, Chittoor District.

(7) Training in Museum Technique was given to the Science Consultant of Teacher's College, Saidapet, and to the Technical Assistant of the Government Museum, Pudukkottai.

(8) A half-size print of a photograph of the meteorites was given to the Superintendent, Government Museum, Madras for his publication on it.

(9) Nine photographs of the exhibits in the various galleries were sent to Sri M. S. Chandrasekhar, Curator, Government Museum, Pudukottai for his publication.

Photographs added.—During the period under report, the following photographs were added :—

(1) A general view of the show-case containing Eocene, Oligocene and Miocene fossils;

(2) A mineral and fossil mounted on a cardboard box with pliobond;

(3) Garnets embedded in plaster of Paris and a flat mica specimen held vertically up with a strut of plaster of Paris.

(4) Corundum;

(5) A general view of the South Arcot Lignite Gallery;

(6) Meteorites;

(7) Banded hematite jasper;

(8) Pebbles faceted by the abrasion of wind-blown sand;

(9) Old Man of Hoy;

(10) Stratified jointed rocks in the process of weathering.

Plans for the year 1962–63—*New additions to the collections.*—Different types of soils will be procured and added;

Additions to the galleries.—The Geological map of India and the Geological map of Madras showing the mineral occurrences will be framed and added.

The Geological time-scale (chart) will be prepared and exhibited under Palaeontology.

A few photographs and a specimen of red ochre will be exhibited under General Geology and Rocks respectively.

Improvements to the galleries.—As the Geology hall is stuffy and not well lit it is proposed to provide air-circulators and tube-lights. The soiled cloth lining in a few sloping cases will be renewed. Distemper will be applied to the cloth lining in the remaining sloping cases.

Labelling.—The old and discoloured labels will be renewed. Bilingual labels will be provided for a few more exhibits.

Special exhibitions.—A special exhibition on Iron ores will be arranged.

Lectures.—Lectures on "Petrofabric analysis", "Coal" and "Gem stones" are proposed to be delivered for the benifit of college students in the City.

Facilities to Research workers and others.—Facilities to research-workers and others will be rendered as usual.

ANTHROPOLOGY.

General.—During the period under report, the Curator-*cum*-Assistant Superintendent, Government Museum, Madras, Sri C. J. Jayadev, retired from service. Prior to retirement, he was on leave preparatory to retirement from 1st of April to 6th of June, 1961. The present incumbent to the post was appointed in early June. A new post was also created in the section during the year under report viz., that of an Assistant Curator, and the candidate selected had also joined duty in early June. The post of the attender of the section was also upgraded to that of a Technical Assistant in May 1961.

During the period 1st April 1961 to 6th June 1961 the Curator of the Numismatics Section was holding additional charge of the Anthropology Section.

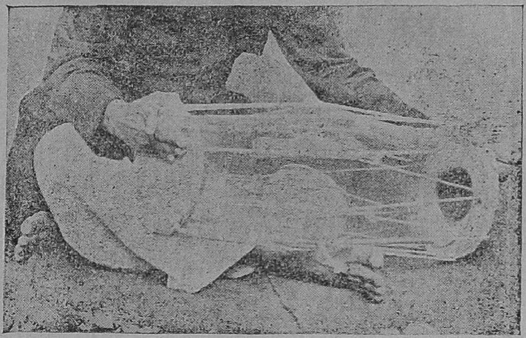
New additions to collections.—During the period under report the following musical instruments were purchased from Sri M. R. Balakrishna Naidu :—(1) One glass Dholak, (2) One small drum; and (3) One Thanthipanai (Pot musical instrument). The former two were acquired at a total cost of Rs. 70 only. The latter was got for the Pudukkottai Museum and it was sent early in 1962 to Pudukkottai.

The following gold articles were also acquired :—(1) Four Anandamudichis; (2) Nine Gold beads; (3) One Tali; and (4) One large Gold coin. These articles were got from Treasure Trove finds.

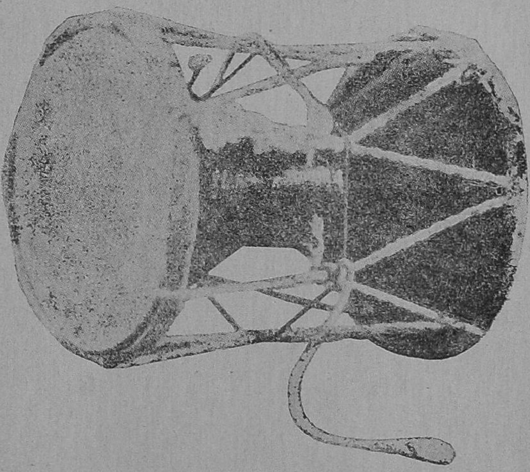
The following articles of ethnographic interest were also got done by a local artist at a total cost of Rs. 1,200—

(1) The bust of an Yenadi Man ; and
(2) The bust of an Yenadi Woman.

The following prehistoric materials were got as exchange items and from megalithic burials at several places in South India, etc. They are four potsherds of Rangmahal area, nine potsherds of Somnath, six potsherds of RB type from Somnath, one large Samain ware, 23 pieces of Gujarat microliths, 16 Maheswar series II palaeoliths, 12 Narbada valley palaeoliths (all got from M. S University, Baroda); Six flesh reproductions (viz., Busts of following fossil men—(1) *Homo neanderthalensis*; (2) *Australopithecus africanus*, (3) *Australopithecus prometheus*, (4) *Sinanthropus pekinensis*, (5) *Palaeanthropus palestinensis*, and (6) *Homo neanderthalensis*, were obtained from the University Museum.



2. Glass Dholak (Belgian Glass Drum.)



3. Small drum (Damarukam.)

Philadephia by purchase. One large earthernware sarcophagus was obtained from a burial site at Arumbakkam, near Aminjikarai, Madras. Two megalithic burial pottery pieces were also got from Maduraivoyal, near Madras. Seventy-two megalithic burial pottery were also got from Mohanur, Salem district by the Curator while on a field trip. This find incidentally was brought to the notice of the Central Advisory Board of Archaeology by the Superintendent, Government Museum while the annual meeting of the Board was held in December 1961 at New Delhi.

Work in the galleries.—Repairs were effected to old musical instruments like changing of old striking surfaces of some percussion instruments and changing of old and rusted out strings of old stringed instruments. These repairs were effected after nearly a decade. The earlier instance of work of similar nature done was in 1951 when the Government Museum celebrated its centenary.

Improvements to the gallery.—All the spears fixed along the wall in the arms gallery were nailed suitably so as to render them untamperable. Almost all the deteriorated lables (number given in brackets) in the New Ethnology show cases (9); Ethnology II Room (34); Musical instruments Gallery (72); Prehistory Galleries (187); Kathakali Room (24); and Arms gallery (46); were replaced. Old faded bindings of photographs numbering in all 28 were also redone. The approximate number of photos and labels renewed during the period are about 400. All the cupboards and cases containing exhibited articles were cleaned and arranged in a neat and attractive manner. The cases containing Sesha Vashanam and South Indian Temple Car, and the case with implements from Iron Age burials were provided with a pale blue background to give good relief to the objects. About 30 (thirty) cannons placed in the Arms gallery and around the museum theatre were got cleaned and provided with—(1) bungs for the mouth portions; (2) new wooden blocks under the wheels; and also old perished wooden supports and props were replaced. A new modernised showcase for the exhibit of the Andhra Shadow Play figures was constructed and installed by the Wood Working Unit, and in it were displayed some shadow play figures. Some cases were provided with a pale cream coloured or pale blue background.

Preservation of reserve collections.—Almost all the specimens including those in the reserve collections were given chemical preservative treatment. The following objects were preserved chemically—(1) Leather shadow play figures from Andhra, Mysore and Malabar, totalling 113 pieces, were given rectified spirit and castor oil treatment. (2) Three hundred and fifteen iron implements from Adichanallur and Perumbair, 47 iron implements from Nilgiri cairns, 84 spears from Tanjore, 24 iron shields from Spanish countries and 5 iron implements from Mohanur (Salem district) were given a preservative wax coating. (3) The

Meriah sacrifice post was given Ascu treatment. (4) One Sarcophagus from Arumbakkam was given a preservative treatment with Shellac (water soluble). (5) One brass and copper gottuvadyam was given a polishing and protected with a celluloid spray. (6) Thirty-four pieces of bamboo articles from Assam hills were given a protective wax coating.

Research.—The Curator started the work on Adivasis of Tanjore based on social, cultural and physical Anthropological aspects. The Curator in addition worked on the blood groups of tribals, old skeletal finds and Palmar dermatoglyphics. The work on Kollimalaialis was also started during the year. All these items are progressing satisfactorily. The work of cataloguing the arms collections of the Museum is also being continued.

Training.—Training in the preservative methods of Anthropological specimens was given to the following personnel :—(1) The Technical Assistant, Government Museum, Pudukkottai; (2) The Technical Assistant, Department of Archaeology, University of Madras; (3) The Science Consultant, Teachers' College, Saidapet, Madras; (4) Several men and women Teachers of local schools; (5) The students of the M.A. Degree Course in Archaeology of the University of Madras.

The gallery guides appointed during the year under review were also given a course of training on the significance of the exhibits in the galleries, so as to enable them to explain properly during their guide work.

The Curator of the Section underwent a course of training for three days in August 1961 in the Blood Bank of Stanley Hospital to learn bloodgrouping techniques.

Facilities to Research workers and others.—The following scholars or students were rendered facilities to study the materials of the section in connection with their research work. (1) Shri B. B. Lal, Director, School of Archaeology, New Delhi to study Graffitti on pottery; (2) Saravashri D. Roy Choudhury and J. C. Sharma of the National Museum, New Delhi and Department of Anthropology of the Punjab University, Chandigarh, respectively to study material culture and Adichanallur skeletal finds; (3) Sarvashri M. M. Singh (Bihar University, Patna), C. Margabhandu (School of Archaeology, New Delhi), Dr. K. D. Banerjee (Pre-history Branch, Nagpur) and the students of the School of Archaeology, New Delhi—facilities to study prehistory collections, with particular reference to those representing Foote's collections. (4) Dr. R. M. Mehta (M. S. University, Baroda) was given facilities to study the Arms collections; (5) Dr. L.P. Vidyarti, Professor of Anthropology, Ranchi University, Ranchi, Bihar—to study specimens relating to Pre-history and material culture; (6) Mrs. I. Calvert (St. George's Cathedral, Madras) and Mrs. Brinton (United Liner Agencies, Madras)—facilities to study the

collections of Arikamedu; (7) Dr. Johanna Spector, Ethnomusicologist, Jewish Theological Seminary, New York and Sri N. Krishnaswami, Staff Assistant, All-India Radio, Vijayawada—facilities to study the musical instrument collections. To the former facilities were also rendered to study some photographs of South Indian Tribals; (8) Dr. Heinz Baurat Westphall and Mrs. (Dr.) Sigrid Westphall were given facilities to study literature on burial pottery and the origin of the buffallo ethnographically, in South India and also Nilgiri cairn Terracottas; (9) Dr. F. E. Zeuner (London University, London), Dr. Wein Rite (Visiting Professor of Geochronology, M. S. University, Baroda), Mr. K. V. Soundararajan (Prehistorian and Superintendent, N. W. Circle, Department of Archaeology, Ahemedabad and Mr. S. P. Gupta (Deputy Keeper in Archaeology, National Museum, New Delhi) facilities to study Sawyerpuram microliths of Dr. Aiyappan and Mr. Bruce Foote; (10) Takayasu Higuchi, Assistant Professor of Archaeology, Kyoto University, Kyoto, Japan to study the palaeoliths of Madrasian facies; (11) Dr. B. Subba Rao, Professor of Archaeology, M. S. University, Baroda—to study the megalithic pottery from South Indian burials; (12) Mr. Khazanchi, Superintendent of Arohaeology, Kashmir Circle, Kashmir to study neolithic material of Bruce Foote ; (13) The students of Utkal University, Bhubaneswar, Orissa, under the guidance of Dr A. Aiyappan to study the material culture and Pre-history materials; (14) Mr. L. A. Krishna Aiyer, Anthropologist, to study megalithic pottery and photographs of megaliths from Feroke, Malabar; (15) Dr. V. Santhanam, Director, Indian Council of Agricultural Research, Pirricom centre, Coimbatore, to study samples of Ancient pieces of cotton fibres from Adichanallur; (16) Dr. R. V. Joshi, Superintendent of Pre-history Branch of the Archæological Survey of India, Nagpur, to study palaeoliths from Malaya, Java, Japan and China; (17) Dr. Ruggles Gates; data of Anthropometric nature was sent on Kotas and Todas, at the request of Dr. A. Aiyappan ; (18) To the students of the Department of Anthropology, the University of Madras under the guidance of Mr. C. J. Jayadev, facilities to study Pre-historic materials from all the countries available in the Museum and also material culture examples.

Exchanges.—(1) 24 palaeoliths, 12 neoliths including iron implements, one burial urn, one sarcophagus, and 12 megalithic burial pottery were sent to the National Museum, New Delhi in return for a plaster cast of Mathura Buddha.

(2) 12 palaeoliths, 12 neoliths, and 12 megalithic pottery were sent to M. S. University, Baroda in exchange for 4 potsherds of Rangamahal 6 potsherds of Somnath, 6 potsherds of Somnath R. B. type, one large Samain ware, 23 Gujarat microliths, 16 series II Maheswar palaeoliths, and 12 pieces of Narbada Valley palaeoliths.

Publications.—A guide book to the Anthropology galleries and collections by Sri C. J. Jayadev and Sri M. Raghupathy in English is under preparation. The Tamil guide on the above is already in the Press and final copies are expected very soon. A paper each on "Tali Rite in South India" and "Attapady Tribes (Mudugas and Irulas)" is under preparation by Sri C. J. Jayadev. Arrangements were made to reprint the Calatogue on the Musical instruments in the Madras Museum, as the stock of this publication was exhausted recently. An appendix by the Curator on recent acquisitions of musical instruments was added to make the bulletin up-to-date. The proofs of the publication are expected shortly.

Tours.—The Curator of the section was on tour to the following places—(1) Kodikkarai, Tanjore District to study Adivasis; (2) Pullambadi, Tiruchirappalli District to study fossil beds; (3) Kolli Hills, Salem District to study Kolli Malaialis; (4) Mohanur, Salem District to study megalithic burials; (5) Kanchipuram, Chingleput District to study Pallavamedu excavations ; (6) Pallavaram to study palaeolithic site ; (7) Kunrathur to study megalithaic burials; (8) Attirampakkam to study palaeolitoic sites; (9) To New Delhi, to bring the articles sent to Archaeology Centenary Exhibition.

Photographs added.—During the year 76 negatives ($1\frac{1}{4}$ plate—9); ($\frac{1}{2}$ size—11); ($2\frac{1}{4}$ by $2\frac{1}{4}$ size—56) and 230 photographs ($\frac{1}{2}$ size—141 and $2\frac{1}{4}$ size—89) were added to the negative collections and photographic albums, respectively.

Miscellaneous.—The Section afforded facilities for the Production Unit of Film Division to film the Pre-historic collections and megalithic burial pottery for a documentary on Indian Archaeology to be released during the Centenary Celebrations of the Department of Archaeology, Government of India. The Section also afforded facilities to record the sound of the Chinese bell of Opium War fame, by two prominent South Indian Film Producers.

Plans for 1962–63—*Anthropology Section—Additions.*—It is proposed to add models of Tribal busts in the modernised Ethnology cases, so as to provide the physical types in addition to objects illustrating their material culture. An attempt will be made to get colour transparencies of tribal dances and festivals, etc., in order to bring out half-a-dozen interesting picture post cards. An attempt will be made to collect stone age artifacts of India by exploration and acquire foreign materials by exchange.

Improvements.—It is proposed to get the second Ethnology gallery and Kathakali gallery modernised with built in wall cases and provide them with internal fluorescent lighting. All the Kathakali figures which are now faded will be touched up and brightened The corridors leading to arms and Pre-history

galleries and the galleries themselves will be provided with flourescent illumination, replacing the existing ordinary filament bulbs. The recently acquired models of early man will be displayed in a suitable case to illustrate the fossil history of early man.

Publication.—The Catalogue of Musical instruments which is in the Press will be released during the course of the year for sale. The work on Addivasis of Tanjore, and on the Arms gallery will be continued and written up for publication as Museum bulletins during the course of this year.

Research.—The work on the Adivasis of Tanjore, Kolli Malaylis of Kolli hills, Salem District will be continued. The work of collecting Dermatoglyphic data on the South Indian Tribals will also be continued.

As regards the megalithic site, Mohanur, if it yields more interesting data, it is proposed to conduct a trench digging with the help of all the other curators under the direction of the Superintendent, Government Museum. The report will be consolidated under the direction and editorship of the Superintendent, Government Museum.

NUMISMATICS.

New additions to the collections.—(1) Thirty-two copper coins were purchased from Shri T. M. De Silva, Colombo, Ceylon. Of these 31 are Pandyan coins—rectangular, square and round. The remaining one is a Setupathi coin of the Ceylonese type.

(2) Two gold Venetian Sequins were acquired as Treasure Trove from Pallapalayam village, Karur taluk, Tiruchirappalli district.

(3) One hundred and three copper coins were purchased from Shri V. Chockalinga Mudaliar, Madras. Of these seventy-one are Vijayanagar coins of the Elephant, Bull and Hanuman types. The remaining thirty-two coins are South Indian types, which cannot be ascribed to any particular dynasty.

(4) Nine copper coins were presented by Mr. J. W. H. Knott, Madras. Five of these are Salankayana coins with bull and legand, "Chandra". One is a Maharatta Chatrapathi type, one of Bhuvanaika Bahu of Ceylon, one of Krishnadevaraya of Vijayanagar and the last is a 1808 cash piece of English East India Company.

(5) Twenty-two gold coins were acquired as Treasure-Trove from Wandiwash taluk, North Arcot district. Fourteen of these belong to the Eastern Chalukyas, six to the Kongu Cheras and the remaining two to the Telugu Cholas.

(6) Forty-six gold Panams of the ordinary variety were acquired as Treasure Trove from Keeranur village, Tiruvannamalai taluk, North Arcot district.

(7) Forty-eight silver punch-marked coins were acquired as Treasure Trove from Vakkampalayam village, Pollachi taluk, Coimbatore district.

(8) One silver rupee of Mugal Muhammed Shah of Shajahanbad mint was presented by the Deputy Commissioner, Ludhiyana, Punjab.

(9) Seven silver coins—Two rupee and four half-rupee coins of Victoria of the year 1840 and one Arcot half rupee of Alamgir-II of the year 1172—were acquired as Terasure Trove from Berigai village, Hosur taluk, Salem district.

(10) One 1/12 Anna of 1835 of William IV was presented by Shri A. Papiah, Nellore.

(11) Four copper coins—One half-pice of Victoria of 1853, two half-pice of Edward VII of 1906 and 1907 and one Indo-Portuguese Quarto of 1886—were purchased from Mr. C. Robert, Madras.

(12) Two hundred and eighty-five mint specimens of the rupee, half-rupee, quarter-rupee, two anna, one anna, half-anna, ¼ anna, 1/12 anna and ½ pice pieces of Victoria, Edward VII, George V and George VI of different years were purchased from the Government of India Mint at Bombay.

Work in the Section.—The coins acquired during the year and in previous years were classified and transferred to the respective stock registers.

Labelling.—A few labels of the Plaster casts of coins displayed in the gallery were changed.

Educational Activities.—The sale of the sets of metal casts of coins illustrating the history of Indian coinage accompanied by an explanatory booklet was continued during the year.

Research.—The Curator has commenced the study of the Chola coins in the Museum with a view to preparing a catalogue of the Chola coins.

Publications.—The Curator contributed an article on the Madras Museum collection of coins to the Golden Jubilee Souvenir Volume of the Numismatic Society of India.

The manuscript of Professor Balakrishna Nayar's bulletin on the Doulaishwaram hoard of Chola and Eastern Chalukyan coins had been received and is being sent to the Press for printing.

Mr. T. G. Aravamudhan's bulletin on Roman coins, is in its final stage of preparation.

Special Exhibitions.—Two special exhibitions were conducted during the year :—

(1) Coins of the Mysore Sultans—Haider Ali, Tipu; and

(2) Medals issued by the English East India Company for campaigns in Mysore.

Lectures.—The Curator attended and participated in a seminar on Museum Architecture conducted by the United States Information Service, Madras. Lectures were delivered on Indian Coins to the M.A., students in Archaeology of the Madras University and to the teachers of high schools in the City of Madras.

Facilities to Research workers and others.—Professor M. Rama Rao of the Venkateswara University was given facilities to examine South Indian coins. Mr. Cyle. K. Jacker, Madras, was helped to identify his collection of copper coins. The Director of Archaeology, Kerala State, was given information on Punch-marked and Chera coins.

Photographs added.—Two half-size and three ¼ size photographs were added during the year.

Tours.—The Curator went on tour to Varanasi in December 1961 to attend and participate in the Golden Jubilee Celebrations of the Numismatic Society of India.

Plans for the year 1962-63.—*Improvements to galleries.*—A separate gallery for Numismatics has been proposed to be housed in the new building and for this gallery, metal casts of the coins of India and charts and maps will be prepared during the year.

Work in the section.—The Andhra Satavahana Coins in the museum cabinet will be registered in their respective registers.

Publications.—A guide book on the Coins of India will be prepared in English and translated into Tamil. A Catalogue of Chola coins in the Museum is being prepared by the Curator and will be finalised during the year.

Two bulletins—one by Professor T. Balakrishnan Nayar on the Dowlaishwaram hoard of Chola and Eastern Chalukyan coins and the other by Sri T. G. Aravamudhan on Roman coins—will be under publication as Museum bulletins.

ARCHAEOLOGY.

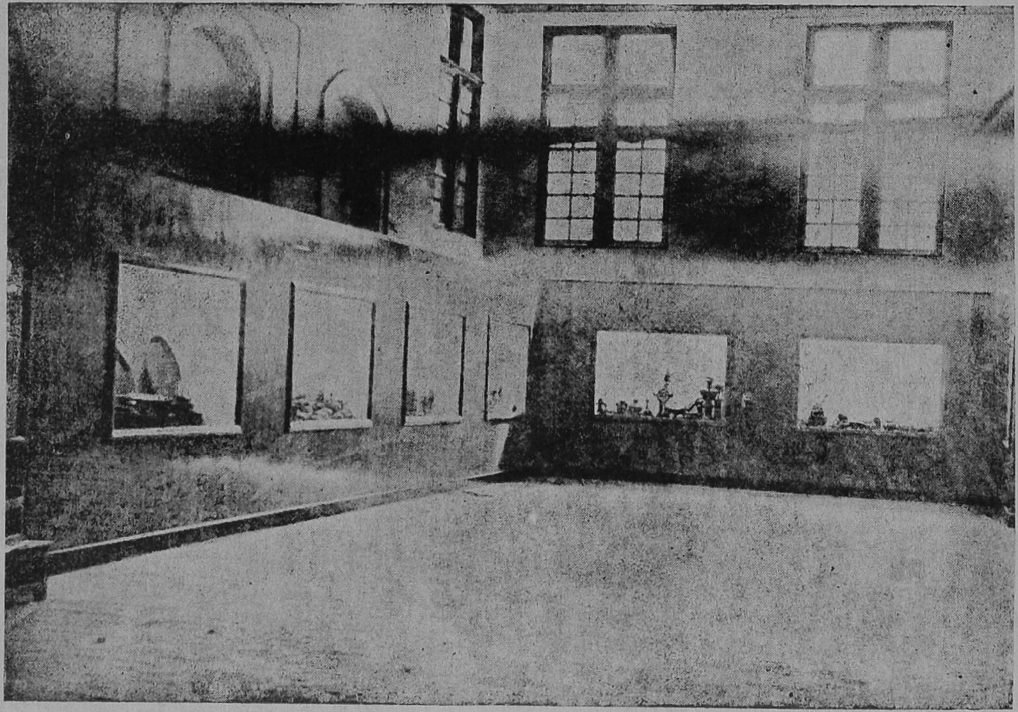
New Acquisitions.—Significant additions were made to the Archaeological Section of this museum, during the year 1961–62. A stone pillar bearing the inscription of the great Pallava monarch Mahendra who ruled from 600 to 630 A.D. with Kanchi as his capital was acquired for the Museum, along with three pillars of the same period. The inscription gives various titles of Mahendra and mentions a title, *Chitrakarapuli*, i.e., "Tiger amongst artists." From other inscriptions of Mahendra it is learned that the king

was a great patron of art, literature and music. It was he who was responsible for introducing rock cut caves into South India. It is very significant that his group of structural pillars, is the only one so far noticed with the inscription of Mahendra, all the rest being rock cut ones. This is perhaps the earliest structural remains of South India and it is fortunate that the Curator could rescue the pillars in proper time for they were being subject to vandalism and were about to be broken to gravels. These pillars were originally supporting a ruined mandapa at Ekambaresvara temple of Kanchipuram. Another notable addition to the collection is the plaster replica of Mathura Buddha, got in exchange from the National Museum, New Delhi, for some pre-historic antiquities and burial urns. This is a fine representation of early Gupta art and is a valuable addition for the comparative study of sculptures.

One notable addition during the period under report are the stone sculptures acquired from Rasipuram village near Pudukkottai, which are of the Pallava-Chola transitional phase. A set of reproductions of Tagore's paintings prepared by the Government of India to commemorate Tagore's centenary was acquired for the Museum. Two panels each from the Tiruvarur temple and the Ramesvaram temple were copied for the Museum. A set of Ramayana paintings on cardboard, in traditional style of about early 19th century was gifted to the Museum by Sri V. Jayaraman, Triplicane, Madras. A total of twelve bronzes, eighteen paintings, eleven stone sculptures, one replica of Buddha in plaster, one modern bronze and two miscellaneous objects were acquired for the museum during the year under report.

Work in the galleries—Additions.—The plaster replica of Mathura Buddha was exhibited in the Buddhist sculpture gallery, six bronzes were exhibited in the place of exhibits that were loaned to the Archaeological Survey of India for its centenary celebrations. The exhibits which were loaned for a special exhibition "5,000 years of Indian Art" at Villa Hugel in Essen, West Germany and received back, were re-exhibited in the galleries, in their respective places. Some select bronzes were sent to a special exhibition organised during the Centenary of the Archaeological Survey of India, New Delhi, and after the completion of the exhibition, the bronzes were received back and re-exhibited in the galleries. Some select pieces of paintings, bronzes and sculptures were loaned to Kalakshetra, Adyar for a special exhibition in connection with its Silver Jubilee Celebrations.

Improvements to the galleries.—The Industrial art and metal-ware gallery was closed to the public and the exhibits were removed to facilitate the construction and installation of modernised built-in show cases. The work was entrusted to the Government Wood Working Unit, Guindy. The modernisation of



4. A view of the **Modernized** show cases in the **Metalware Gallery.**

the gallery has since been completed. But the work of repairing the ornamental false ceiling has since been taken up by the Public Works Department and the display of the exhibits will be commenced as soon as the Public Works Department repairs are completed. The cloth linings of the show cases in the Saivite bronze gallery were renewed and the interiors of all the show cases in this gallery were painted. A new show case for the Mathura Buddha was also prepared.

Labelling.—New and prominent sign-boards were fixed in all the galleries. In the new extension and the Hindu sculpture gallery all the labels with glass frames were replaced with aluminium labels. Over fifty labels in the bronze galleries were renewed.

Special Exhibitions.—Some of the best specimens of the Archaeological collections were loaned out for two special exhibitions. In connection with the Centenary celebrations of the Archaeological Survey of India, a special exhibition was organised at New Delhi comprising some of the best antiquities of the country. Some select antiquities from this Museum like the Bhattiprolu relic casket, Nagapattinam bronze image of Buddha, etc., were loaned for the purpose. The exhibits were specially insured, packed and transported under the personal custody of an officer of this Museum. After the duration of the exhibition, the objects were received back in good condition and re-exhibited in the galleries. In connection with the Silver Jubilee of Kalakshetra, Adyar, a special exhibition was organised for which select paintings, bronzes and wood carvings were loaned and after the completion of the Exhibition the antiquities were received back in good condition. The select exhibits, loaned out for a special exhibition in West Germany were received back in good condition. The following special exhibitions were organised by the section in this Museum :—

(1) A special exhibition of modern paintings and (2) A set of reproductions of Tagore's paintings.

Research.—The Curator for Archaeology, Sri R. Nagaswamy, was engaged in research on the authorship of the Mamallapuram monuments and a paper was presented by him on this subject at a meeting of the Archaeological Society of South India. The paper purports to settle the authorship of the Mahabalipuram monuments. The Curator was also engaged in research on the technique of South Indian metal castings; a summary of this work was presented to the International conference on Asian Archaeology during the Centenary celebrations of the Archæological Survey of India. The Curator continued his study of the Gopuras of Chidambaram. Considerable progress has been made in popularising the studies of Archaeology amongst the public, by contributing

research articles, to leading newspapers, magazines, research journals and periodicals. The following popular articles were contributed by the Curator.

(1) " New Bronze finds from Tiruvenkadu " in the Transactions of the Archaeological Society—Volume V.

(2) " Two Ardhanarisvara Images " in the Hindu Weekly—26th November 1961.

(3) " Panamalai Paintings " in the Mail Weekly magazine—9th December 1961.

(4) " An Indian Image " in Veekshana—26th January 1962.

(5) " Tanjai Azagar " in the Hindu Weekly—4th March 1962.

The Curator has also contributed the following research articles to foreign journals :—

(1) *Amaravathi.*—to the Encyclopaedia of Buddhism—printed in Ceylon.

(2) *Pallava bronzes in the Madras Museum.*—in Pantheon printed at Munich.

Publications.—The section has set up a high record of activity in the field of publications during the period under report. For the first time in the history of the Museum, an authoritative and illustrative Tamil guide to Indian art and architecture in general and the archaeological galleries of the Madras Museum in particular has since been published under the title of *Kalaichelvangal.* In order to popularise the subject the book is made available to the public at a nominal price of rupee one per copy. A similar guide to the Amaravathi sculptures is also under preparation. Sri P.R. Srinivasan, formerly the Curator for Archaeology and now the Assistant Superintendent for Epigraphy has since submitted his monograph on " The Bronzes of South India ". Most of the blocks pertaining to the above work has since been prepared and the printing of the bulletin is in progress. The preparation of " A Catalogue of Hindu stone sculptures in the Madras Museum " by Sri R. Nagaswamy is nearing completion. The typescript of a paper on the " Nolamba sculptures in the Madras Museum " by Sri C. Sivaramamurthi, Keeper of the National Museum has since been received and the paper is under publication as a Bulletin of this Museum. Proofs of the following bulletins were corrected and sent to the Press and the final copies are awaited :—

(1) The Three Main Styles of Indian Temple Architecture;

(2) Early Eastern Chalukyan Sculptures.

The following bulletins of the section are in various stages of printing in the press :—

(1) Indian Epigraphy and South Indian Scripts;

(2) Nagapattinam and other Buddhist bronzes in the Madras Museum;

(3) Buddhist Sculptures from a stupa near Goli Village;
(4) Bronzes of South India;
(5) Nolamba Sculptures in the Madras Museum;
(6) The Three Main Styles of Indian Temple Architecture; and
(7) Early Eastern Chalukyan Sculptures.

The Handbook of the Madras Museum, being a comprehensive guide book to the various sections of the Museum, has also been taken up for printing and the book is now in the Press. A set of four colour picture post cards of select paintings of the museum, has also been taken up for printing. It has also been decided to prepare photographic albums for sale. The work of preparing the albums has been entrusted to Messrs. Klein and Peyerl and is nearing completion.

Lectures.—The Curator delivered a lecture to the teachers from the Saidapet Teachers' Training College on " Museums and teaching of social studies ". A lecture to the post-graduate students of Archaeology of the University was also delivered by the Curator. The Technical Assistant of the Pudukkottai Museum, the Science Consultant of the Saidapet Training College and the Technical Assistant of the Department of Archaeology, University of Madras were given training in Museum methods of preserving and exhibiting Archaeological antiquities. The Curator also delivered two lectures to the members of the Archaeological Society of South India on (*a*) New light on Mamallapuram; and (*b*) Vaikunta Perumal Temple of Kanchi. The Curator participated in the Centenary celebrations of the Archaeological Survey of Inia as a representative of the Government of Madras. He took part in a seminer on architecture, organised by the United States Information Service. The Curator also participated in a seminar on histriography, organised by the Institute of Traditional Cultures of the University of Madras. The Curator gave a talk on "Akkadevi" which was broadcast by the All-India Radio for the middle school children.

Facilities to research workers and others.—Research facilities were extended to both Indian and foreign scholars to study and photograph the Archaeological collections of this Museum. The reference collections were also shown as and when required by scholars. Mr. Douglass Barret, the Keeper of the Indian Section of the British Museum was shown the study collection of bronzes. Mr. Irwin, Keeper of Oriental Antiquities of the Victoria and Albert Museum, Londan, was also shown the study collections of bronzes and was permitted to take photographs. The representative of Bhulabai Desai Memorial Institute, Bombay, was permitted to take photographs of the reserve collection of bronzes. Dr. Chabra, Joint Director-General of Archaeology in India was afforded facilities to study the copper-plate charters of this Museum. The Bronze Production Centre of the Handicrafts Board of the Government of India was afforded facilities to take plaster replicas of six

bronzes for the Production Unit. The Government Sculpture Training School of Mahabalipuram was afforded facilities to take plaster replicas of three bronzes, for training purposes. Sri T. N. Ramachandran, Special Officer for Archaeology, Government of Madras was afforded facilities to house his office initially in the room adjoining the Curator's Office room and such other facilities as were required. The Hindu Religious Endowment Board was afforded facilities to make a documentary film on some of the bronzes of this Museum. Sri C. Sivaramamurthi, keeper of the National Museum, New Delhi, was afforded facilities to complete his monograph on Nolamba Sculptures in the Madras Museum. The Art Purchase Committee of the National Museum was afforded facilities to hold its meeting in this Museum. The same facilities were extended to the Art Purchase Committee of the National Gallery of Modern Art. Madam Auboyer and Mrs. Zannus of the Musee Guiment, Paris, were afforded facilities to study the reserve collections.

Tours.—The Curator visited Tiruvarur and Ramesvaram and compared the mural copies with the originals. He went to Bombay and brought back the exhibits loaned to West Germany for a special exhibition. He visited Pudukkottai with the Assistant Superintendent and brought some sculptures that were found lying uncared for in the area. The Curator went to New Delhi accompanying the exhibits loaned for the Archaeological Survey of India. He paid another visit to New Delhi for taking part in the Archaeological Centenary Celebrations. He paid a visit to Sivagiri for the collection of sculptures.

Plans for the year 1962–63.—The re-organisation of Metalware gallery will be taken up during this year and all the metalware will be exhibited in the newly modernised show cases. This will form the major improvement project of this year. The Vaishnavite bronze gallery will be painted with suitable background. The New Extension Sculpture gallery will be provided with bilingual labels for each bay. The Amaravati sculptures will be provided with aluminium labels. It is proposed to acquire a series of reduced plaster replicas of Nagarjunakonda monuments and Indian sculptures and exhibit them in the Centenary Exhibition Hall. The indexing of all the bronzes will be taken up and completed and also all the art objects will be valued. It is proposed to improve the lighting of the picture gallery. Some of the frames of painting in the picture gallery will be renewed. It is also proposed to frame and exhibit the copies of murals from Chidambaram and Srirangam. It is also proposed to prepare reduced replicas in bronze of Rama and Sita of the National Art Gallery. The reprinting of the following publications will be completed :—

(*a*) Indian Epigraphy and South Indian scripts;
(*b*) Early Eastern Chalukyan Sculptures;
(*c*) The Three Main Styles of Indian Temple Architecture;
(*d*) Nagapattinam Bronzes;

(e) Bronzes of South India;

(f) Nolamba Sculptures ; and

(g) Picture Post Cards.

In addition, the following monographs will be got ready for printing :—

(a) A Guide to the National Art Gallery, Madras;

(b) A Guide to the Amaravati Sculptures (in Tamil) ;

(c) The Gopuras of Chidambaram; and

(d) The Catalogue of Hindu Stone Sculptures in the Madras Museum.

CHEMICAL CONSERVATION.

The ground floor of the newly constructed extension to the Chemical Laboratory was provided with the necessary items of furniture received from the Government Wood Working Unit. Arrangements were made to import some essential scientific instruments. Four air-conditioners were fixed in the analytical room of the first floor and the flooring in this room was provided with rubber sheets. A gas plant was purchased and the installation work is being carried out. Arrangements are also being made to procure other essential items of equipment for the Laboratory.

This Museum was enrolled as an Institutional Member of "The International Institute of Conservation and Works of Art" during the year.

Twenty-eight bronze images were cleaned electroytically and coated with preservative solution. Some of the bronze images were treated with silver oxide in rectified spirit, this being a new treatment recently evolved. Ten wood carvings were received and they were cleaned to remove the tar and coated with Ascu solution. The cleaning of the marble statue of Queen Victoria in the National Art Gallery was attended to with lissapol solution. Two Kalankari textile pieces were found torn and stained. They were mended properly and cleaned with teepol and lissapol solution without affecting the dye. A specimen of an invoy casket was also treated with lissapol in rectified spirit.

One thousand four hundred and fifty-four lead coins, 11 gold coins, 73 silver coins and one tin coin were received and they were suitably treated and coated with a protective coating. 3,200 copper coins were treated in Rochelle salt and citric acid solutions alternatively and brushed. Some of them were placed in electrolytic cells. A few portions of the state coach were found torn and damaged. They were finely mended. The accessories of the coach were brushed and treated with castor oil in rectified spirit solution.

One hundred and thirteen shadow play figures were cleaned with castor oil is rectified spirit solution. The Meriah sacrifice post was brushed with Ascu solution. Thirty-four bamboo articles such as baskets, traps, hats, etc., were treated with a thin film of paraffin wax in turpentine solution. 315 Adichanallur iron implements, 47 Nilgir iron implements, 84 Tanjore spears, 24 Spanish arrows and shields, 5 Mohanur iron implements, etc., were cleaned and coated with paraffin wax in turpentine solution. One sarcophagus was well brushed and coated with shellac varnish. One metal Gottu Vadyam was polished with Brasso and coated with celluloid solution. One bronze female figure from Adichanallur was treated with Rochelle salt and citric acid solution. One pair of elephant ivory tusks and one silver-bordered mirror in the Zoology gallery were treated suitably and re-exhibited.

Special exhibitions were arranged for the public on " Glass " and " Electrolytic treatment of bronze images ".

A few photographs were added to the album showing the condition of the objects before and after treatment.

A special lecture was given to the students of the M.A. Degree Course in Archaeology of the Madras University on methods of conservation of museum antiquities.

Plans for the year 1962-63.—Arrangements will be made to furnish and equip the expanded laboratory fully. Applications for import of several essential items of equipment have already been submitted, but owing to foreign exchange difficulties, it has not yet been possible to acquire them. The laboratory furniture and fittings for the first floor will be installed and laid out. The electrical and sanitary fittings will be completed. Analytical work and research on conservation methods will be continued on an enhanced scale.

CHILDREN'S SECTION.

Additions to the collections.—The following models and dolls were added to the collections during the year :—

(1) Miniature models of the antique cart ' Pierce Arrow ' and ' Stanley Steamer ' and a model of a Mercedes car.

(2) Miniature plastic models of the locomotive ' Rocket ' and ' Casey Jones '.

(3) Miniature plastic models of an air ship, a propellor plane and a jet plane.

(4) Miniature plastic models of an antique horse-drawn vehicle and an antique fire engine.

(5) Miniature models of an antique bicycle and a modern one.

(6) Miniature models of an old-fasioned motor bicycle and a modern one.

(7) Miniature models of a Roman Chariot, the Mohenjodaro cart and a sledge.

(8) A set of twelve cloth dolls illustrating the four classical dances of India.

Additions to the galleries.—All the transport models which were added to the collections during the year (with the exception of the fire engine) were displayed to their best advantage in the second transport case. The photographs which had been previously mounted in the case were removed and the background colour scheme was changed.

Labelling.—Explanatory labels written on pale lilac-coloured paper were used in the transport case and individual labels were also provided for each exhibit.

Improvements to the galleries.—A section of the floor boards in the gallery was painted to prevent attack by termites. Regular checking and cleaning of the exhibits in the gallery was continued. Three explanatory labels were rebound and fixed to the case with new wooden plugs. Some of the cases were repainted and treated with curprinol to protect them against attack by termites.

Special exhibition.—A special exhibition of the twelve dolls illustrating the Dances of India was arranged during the month of March 1962 entitled " Dances of India ". In addition to the twelve dolls acquired by the Museum four dolls were lent by Mrs. Viji Srinivasan for the special exhibition.

Plans for 1962-63.—Two new cases have been ordered for the Children's gallery, and it is proposed to illustrate the 'Plant Kingdom' in one of them. In the other, models of a dissected fish and a garden-lizard will be exhibited.

S. T. SATYAMURTI,

***Superintendent**, Government Museum, Madras.*

II. The National Art Gallery, Madras.

The acquisition of the buildings and its surrounding area, for the National Art Gallery is in progress. A total of 12 paintings and one bronze were acquired for the National Art Gallery during the period under report. The special Committee for the National Art Gallery met twice during the year under report and selected various art objects for the gallery. The illumination of the rear room was improved by providing flucrescent lamps. Over forty labels were renewed. Two printed textiles were chemically treated and re-exhibited in the gallery. Two ivory caskets were also chemically treated and exhibited in the gallery. The Bronze production centre of the Handicrafts Board, Bangalore, was afforded facilities to take a plaster replica of Kaliyakrishna for preparing a bronze replica for the Government of India. A new modern bronze, "Condolence" by Pradosh Das Gupta was acquired and added to the gallery.

New Acquisitions for the National Art Gallery.

Paintings.—(1) *King*—Painting tempera Rajput Late 18th century purchased from Hajee Gulam Ahmed, Srinagar. A painting of a stout and bearded king, probably a Rajput as is suggested by the presence of tilaka on the forehead represented as seated and wears a turban and a crown of gems.

(2) *Women worshippers.*—Painting Water-colour—Copy purchased from the artist Sri P. L. Narasimhamurthi, Madras. Copy of a mural painting from Lepakshi temple depicting three women worshippers standing.

(3) *Raja Vikramasingh on horse back with retinue.*—Copy of a Mural, tempera; purchased from Jagdish Mittal, Hyderabad. Copy of a mural painting from the Kula Palace (Punjab) in Pahari style. The painting depicts Maharaja Vikrama Singh on horse back with retinue.

(4) *Balakrishna.*—Traditional Painting; mixed techinque: late 19th century, purchased from Messrs. Indian Crafts, Madras-2. A painting on canvas on a wooden support depicting Krishna as Balakrishna seated on a pedestal with a pot in his left arm and butter in his right. On either side are two ladies, probably Rukmini and Satyabhama.

(5) *Venkateswara.*—Kalamkari painting on cloth purchased from Kalamkari Production Centre, Kalahasti.

A painting depicting Sri Venkatesvara of Tirupathi on cloth: painted and dyed with vegetable colours in what is being called

Kalamkari tradition.

(6) *Anatha.*—A Kalamkari painting on silk cloth purchased from Sri K. Ramamurthi, Madras. Depicts a women in agony. The artist, who specialises in indigenous art has tried modern art in traditional methods.

(7) *Hamlet.*—A Kalamkari painting purchased from Sri K. Ramamurthi, Madras.—Depicts huts in the midst of a palm grove

(8) *On the Terrace.*—Painting in water colour—Purchased from Sri K. Ramamurthi, Madras. A painting in water colour on paper seated on cushion resting her right hand on a pillow placed behind her. The painting follows the tradition of Abanindra Tagore and Chugtai and was painted by N. W. Tagore.

(9) *Navaneetha Krishna.*—Purchased from Sri K. Ramamurthy, Madras. A painting on cloth in the traditional School depicting Navaneetha Krishna seated with a pot in his left hand and butter in his right. His consorts are depicted on either side. The painting is studded with green and red stones.

(10) *Krishna with consorts.*—Purchased from Sri R. M. Muthiah, Kotaiyur, Ramanathapuram District. A painting depicting Krishna as being seated on a cushioned seat with his consorts. The painting is done in the traditional style on cloth with a wooden support.

(11) *Melody.*—Painting, water colour—Purchased from V. K. Raval, Hyderabad—depicts a couple. The male with a cap plays a flute and is seated. The lady also seated listens to the music in rapt attention; painted by Samulali Sha.

(12) *A girl with a deuna.*—Painting, Tempera purchased from Sri Jagadish Mital, Hyderabad. A late 18th Century painting of Deccani school, depicting a lady and her attendent standing while a prince is shown lying on a bed with a necklace in his left hand.

Bronzes.—(1) *Condolence.*—Bronze purchased from the Artist Pradosh Das Gupta. A modern bronze of abstractionist school depicting two nude women seated, one keeping her right hand over the head and the left land on her knee and the other holding hcd and consoling. A hollow cast by Pradosh Das Gupta.

Extracts from the Visitor's Books.

Distinguished Visitors.

1 Manuel Moreno Sanchez, Senator and Ambassodor of Mexico.	"It is the greatest museum I have ever seen of Indian History and Sculpture".
2 Allen Brown, Deputy High Commissioner of Australia in the U.K.	"A magnificient collection of art both ancient and modern".
3 A. Rahman Salo, Minister of Education of Malaya.	"An old seat of ancient culture Grateful to have the opportunity to visit it".
4 G. G. Prant, Commonwealth Office of Education, Australia.	"A very fine exhibition. I am grateful for the oppor unity of having seen it".

Ordinary Visitors.

(1) " A beautiful gallery well displayed "—Grace and Rutu Brodsky, New York.

(2) " Much impresed by the gallery and by the fine arrangement of the exhibits "—Mr. Millis Elath, Jerusalam, Israel.

(3) " My first encounter with South Indian Art. An instructive and rewarding experience "—E. M. Schaffer, U. S. Information Service, New Delhi.

(4) " Highly good exhibits "—Lestic P. Hardy Palmerstone North, New Zealand.

S. T. SATYAMURTI,
Superintendent, Government Musuem, Madras.

III. The Government Museum, Pudukkottai.

GENERAL.

Administration.—Sri T. S. Sundaram who was the Curator till the close of the last year, left on promotion as the Assistant Superintendent, Government Museum, Madras. Sri M. S. Chandrasekhar, Curator of the Botany and Geology Sections, Government Museum, Madras, was transferred as the Curator, Government Museum, Pudukkottai. He was on earned leave for one month, during which period Sri M. Raghupathy, Official Guide, National Art Gallery, Madras, officiated as the Curator.

Visitors.—The number of visitors during the year 1961-62 was 1,74,413 with a daily average of 612; and 43 of them were literate.

In 1960-61, 1,54,928 people visited the Museum and 47 per cent of them were literate. The daily average was 587.

As for the distinguished visitors, no visitor to Pudukkottai failed to visit the Museum, in spite of its not-easily-accessible location. The popularity and usefulness of the Museum, it is thus seen, remained undiminished.

Extra mural activities and assistance to educational institutions.—The usual assistance to the educational institutions in and around Pudukkottai, was afforded and 51 institutions were thus benefited.

On the occasion of the Wild Life Week Celebration, the Curator, Sri M. S. Chandrasekhar gave the staff and students of the District Board High School, Tirugokarnam, a talk on the "Different Aspects of the Importance and Usefulness of Wild Life", with sixteen lantern-slide illustrations that were kindly lent for the purpose by the Superintendent, Government Museum, Madras. He gave also a talk on "Kindness to Animals" to the members of the Social Service League, in the Government Training College, Pudukkottai. He delivered also a University Extension Lecture on the "Jungle Life of Modern Man" to an enlightened audience composed of the local elites and the staff and students of the local colleges.

Galleries, gardens and buildings.—A number of show cases were provided with wooden basement panelling. All the show cases were thoroughly cleaned and some of them were rendered insect-proof. A number of old labels were renewed. The general appearence of the galleries was improved.

The gardens were managed fairly well, and they maintained their usual charm and usefulness. Four plants in each of *Agave andreanu* and Stapeliads, and two plants in each of two varieties

of Kalanchoes, were acquired for the garden. An attempt to set up a rockery was made, but it could not be followed up, however, for want of whole-time gardeners and other facilities. A pair of shears for pruning and trimming the plants, one galvanised zinc pot and one galvanised zinc bucket with hose, for watering them (plants) were purchased. Sixty-five new mud-pots were also purchased for replacing the broken and semi-broken ones in the garden.

Extensive special repairs were carried out to the buildings, the cheif of them providing for additional security to the exhibits. Expanded metal frames enclosing the central open yards in the eastern and western wings of the buildings, were firmly fixed into the masonry. The doors and other fixtures of a window of one of the store-rooms, were renewed and strengthened. All electrical fittings that were loosely hanging from the walls and ceilings, were securely fixed. The window-like opening on the wall at the narrow passage between the Invertebrate gallery and the (formerly Economic Products, but now) Mammal gallery, was sealed off with glass, thus achieving the three-fold purpose of securing light, keeping off rain-water, and preventing the visitors from spitting and fouling the place. The drain-openings in both the inner open yards were provided with grid filters. The northern side-wall of the newly constructed tiffin-shed was raised for prevention of the flooding in of rain-water. The ground in the passage between the western wing of the building and the adjacent private wall, was covered up with cement concrete. A gate of iron bars was fixed up for the blind passage between the eastern and the western wings. Two sun-shades of the Taxidermist's workshop, were renewed. Two big name-boards were prominently fixed up at two corners in front of the main buildings, so as to catch the eye of the motoring tourists and visitors coming to, or leaving from, Pudukkottai.

WORK IN THE SECTIONS.

Natural History : Geology.—Four specimens of geological interest (quartz, quartzite and gneissose granites) were collected from the bed of a small dried up rivulet near Kuruvikondanpatti and added to the collections. Three specimens of fossil wood occurring between the Archaean and Tertiary beds near Arimalam, Thirumayam taluk, were collected and added. One of them was later transferred to the Government Museum, Madras. Photographs of a bunch of rock-crystals and an *Alectryonia sp.*, were added to the album and provided with legends. The exhibit of the chart of geological time scale was renewed. All the newly collected specimens were properly cleaned, preserved and exhibited in their appropriate places.

Botany.—One photograph of the Sacred Basil (*Ocimum sanctum*) and Turmeric (*Curcuma longa*) was added to the album and labelled. Twenty-nine old labels in the gallery were renewed. The galleries comprising this subject and agricultude, saw

major changes in the year under report. The exhibits were removed to and rearranged at the hall which was hither-to occupied by the exhibits of mammals and their skeletons. A scheme for re-modelling and improving the almyrah-type show case for the exhibits of plant morphology, was prepared.

Zoology.—In a vigorous attempt to renew all the old entomological exhibits under a top-priority scheme for the Invertebrate galleries, sixty beetles, six butterflies and one dragon fly were collected, properly preserved and added. Two photographs of large specimens of Turbinarian and Madreporarian corals, and butterflies in the field, were prepared and added. Two fine photographs of *Batocera sp.*, and Wolf Spider were procured, given a cut-out mount, suitably framed and exhibited. One exhibit of the praying mantis *Mantis religiosa* was renewed. The jars of thirty-seven spirit-preserved, invertebrate exhibits, were re-filled and bladdered afresh. The labels of forty-four molluscan exhibits were re-written and improved in respect of their get up, on the lines followed in the Government Museum, Madras. A scheme for re-modelling and improving the almyrah-type show-case containing the invertebrate exhibits, was prepared for the improvement and better display of the insect cases.

In the Fish Gallery, twenty-three spirit-preserved exhibits of fishes were re-mounted in their jars. A scheme for re-modelling and improving the large wall-cases containing the exhibits of *Lates. Cibium*, etc., was prepared.

Fresh specimens illustrating the stages in the life history of the frog, were collected, preserved and displayed replacing the older ones in the Amphibian gallery. A fine photograph of the Indian Toad was procured, given a cut-out mount, suitably framed and exhibited. A scheme for re-modelling and improving the almyrah type show-case containing amphibians and lizards, was prepared.

Six specimens of eggs of the turtle were procured, preserved and displayed in the Reptile gallery. A fresh specimen of the Russell's Viper was procured, prserved and displayed replacing an old exhibit that was showing only faded details. Both these new additions were provided with painted labels.

Fine photographs of the Spotted Owlet. Scavenger Vulture and Hoopoe were procured, given a cut-out mount, suitably framed and displayed in the Bird gallery. A photograph of the Short-toed Eagle showing its wing-expanse, was prepared and added to the album. Four show cases containing the exhibits of white breasted water-hen, Demoiselle Crane, flamingo, ducks and geese, were provided with wooden basement panels and rendered more pleasing to loook at. Schemes for re-modelling and improving four, multi-glass-fronted, almyrah-type show-cases were prepared.

Fine photograph of the Golden Cat, Indian Bison, Indian Hare, Black Buck and Indian Lion were procured, given a cut-out mount, suitably framed and exhibited in the Mammal gallery. Two photographs of the common Macaque and Hanuman monkeys and of the Flying Foxes were prepared and added to the album. Two photographs of the common Macaque and Hanuman monkeys, skeletons, saw major changes in the year under review. All the mammalian exhibits were removed to, and rearranged in, the hall that was hither-to occupied by the Botany and Agriculture Sections. All the exhibits of mammalian skeletons were removed to, and rearranged in, the room that was hither-to occupied by some of the copper-plate grants of the Epigraphy Section. These changes restored the contiguity of the Zoology Section as one compact whole which was till now broken up by the Botany and Agriculture Sections. Schemes for remodelling and improving the almyrah-type show-cases containing the mammalian exhibits were prepared.

Economic Section—Agriculture.—Fourteen labels of the exhibits of oil seeds in the Agriculture gallery were re-written and improved in respect of their get up, on the lines followed in the Government Museum, Madras. The show case displaying these exhibits was also rendered insect-proof. The show case containing the exhibits of models of various agricultural implements and tools, was provided with a wooden basement panel and rendered more pleasing to look at.

Art and Industries.—Photographs of a picture of the Coat-of-Arms of the Tondaiman rulers of the erstwhile Pudukkottai State, a piece of wood-carving from Kudumyamalai depicting Anjaneya, and a pith-model of the Rock Fort, Tiruchirappalli, were prepared and added. Two fine grass silk mats of Pattamadai were procured and displayed replacing the older exhibits in the gallery. Three show-cases containing the exhibits of brass and bronze pieces of artistic value and the silver trowel with an ivory handle (with which Sri Marthanda Bairava Tondaiman laid the foundation-stone of the new Palace at Pudukkottai), were rendered more secure with Godrej locks.

Anthropology.—The musical instrument known as Thanthipanai, which is a combination of both the percussion and the stringed types in one, was received on transfer from the Government Museum, Madras. It was mounted and displayed on a suitable stand made of slats of wood and specially devised for the purpose. Minor repairs were carried out to eight exhibits of stringed musical instruments, viz., Tambura, Tuntina, Ektar, Sitar, Veenas, Sarangi and Swaragath. These repairs have given a new life to the gallery of musical instruments. A label for the specimen of Thanthipanai was painted. A photograph of the common ornaments and jewels in general use was prepared and added. Eight show cases containing the exhibits of ornaments and jewels, as well as the Talis and Pottus, were rendered more secure with Godrej locks.

Old, faded labels of forty exhibits of photographs of select burial sites around Pudukkottai, displayed in the Pre-history gallery, were renewed. Three specimens of crudely-worked microliths and one specimen of core-rock were collected from the bed of a small, dried up rivulet near Kuruvikkondanpatti. They were cleaned, suitably labelled and exhibited in the Pre-history gallery. A photograph of the model cist-burial was also prepared and added.

Exhibits of bullets in the Arms and Armour gallery were displayed better and provided with a painted label. A photograph of military vehicles was prepared and added. The broken arm of one of the wooden manikins on which the use of the mail armour is illustrated, was repaired and set right. The exhibits of stone balls, cannon balls and exploded shells were displayed in wooden (file) trays that were suitably altered for the purpose.

Achæology, including Epigraphy.—The oversize cupboards on which epigraphic exhibits of copper-plate grants were displayed hitherto in two adjoining rooms, were withdrawn from the gallery. All the exhibits of copper-plate grants were mounted on bracket-pedestals which were specially devised for the purpose. They were all arranged and displayed on improved lines in one single room, forming one compact unit with adequate moving space for the visitors. The other room that was thus released, became available for organising the gallery of mammalian skeletons, and was utilised accordingly. Labels for the last four exhibits of copper-plate grants, were prepared for getting them printed as in the case of the other exhibits in the same series. One photograph of Devi Chakram was prepared and added.

Twenty-nine photographs of sculptures in stone and bronze on exhibition in this Museum were added. The exhibits of Saptakanyas in the gallery of sculptures, were provided with two painted labels. Five show-cases containing Hindu bronzes and one containing Jaina bronzes, were rendered more secure with Godrej locks. Sixty-seven loose photographs in the album were provided with legends.

Numismatics.—The rich and varied collections of over 2,000 coins in the Section, continued to maintain their importance as usual.

Library.—The Museum Library continued to cater to the needs of the Curator and the interested visitors as ever before Sixteen books were transferred to the Government Museum, Madras, and twenty-three new books were added during the year under report, which ultimately raised their total number to 1,107.

Tours.—The Curator toured the Palaeolithic site at Kuruvikkondapatti and returned with a few anthropological and geological specimens. He toured also Sittannavasal for a study of the Jaina frescoes in the cave-temple there and for making a selection of them for renewing the photographic exhibits in the Museum. He went also on a tour to Madras for consultation with the headquarters, selection of apparatuses and other materials for purchase and for carrying out repairs to some of the photographic equipments in the Museum. The Technical Assistant and the Taxidermist went on a number of short collection tours to nearby places including Karaikudi, Tiruchirappalli and Pattukkottai, many of them with good success.

Staff.—The office of this Museum, which hitherto had a single clerk, was given a second clerk to facilitate working of the improvement schemes under the Third Plan. Sri S. Swaminatha Sarma, Lower Division Clerk in H. H. Raja College, Pudukkottai, was transferred and appointed as Lower Division Clerk in the Museum. Sri P. Veerabadhran, who was acting as Lower Division Clerk was replaced by Sri R. Sarangapani who was allotted to this Unit by the Madras Public Service Commission. Sri S. George Peter, Junior Taxidermist, was transferred and promoted as Senior Taxidermist, Government Museum, Madras and his place was filled in by Sri D. I. Victor who was acting Carpenter in the Government Museum, Madras. Disciplinary proceedings were launched against Sri G. Ramu, Technical Assistant of this Muesum, for his indiscipline while on training in the Government Museum, Madras which finally ended in his removal from service. Sri C. Venkatachalam who succeeded him as Technical Assistant, did not hold on for long and resigned his post within three months after his appointment. All this kept the post of Technical Assistant vacant for nearly six months of the year under report.

Furniture and Fittings.—The work of gradually remodelling the old and antiquated show-cases, was further pushed through. The unwieldly, sliding doors of the big book-rack in the library, were converted into hinged ones. One bug-proof teakwood chair was purchased, and one old and improvised rack in the Stores was converted into a tolerable almyrah, both of which partially met the needs of the additional clerk.

General.—The Superintendent, Government Museum, Madras inspected this Museum from 5th to 10th October 1961, and made valuable suggestions for improvements on modern lines. All his suggestions and instructions, excepting a few, were carried out, when the period under report drew to a close. A stock-book of photographic negatives was opened with sixty-seven old and twenty-five newly prepared negatives. An Acquisition Register was opened for the Zoological specimens as in the case of the others.

The stock of chemicals in the Technical Store Room was tidied up and rearranged. The stand and shutter mechanism of the quarter-plate camera were repaired. An adjustable insect-setting board, a simple-type camera lucida, a pair of cutting-pliers, an one-litre measuring cylinder and a glass-cutter were the apparatuses and instruments purchased.

Research and publications.—Four palaeolithic materials and four geological specimens from Kuruvikkondanpatti, Tirumayam taluk, and thirty old photographic negatives of archæological subjects, were identified. At attempt to identify twenty-three old specimens of fishes in the Museum, was made but only in vain as some of the important characteristics have become obliterated on preservation down these decades.

Facilities were afforded to the Assistant Superintendent and the Archaeology Curator of the Government Museum, Madras for collection of eleven sculptures lying loose around Pudukkottai. Facilities to research-workers and others were also afforded as usual, some of the beneficiaries being Dr. K. D. Banerjee of the Archaeological Survey of India, Sri C. Sivaramamurthi of the National Museum, New Delhi, the Southern Roadways (Private) Limited, and the Nizam Tobacco Company, Pudukkottai, besides others.

A technical article on the preservation and display of geological specimens, based on the Curator's work in the Government Museum, Madras, was sent up and accepted for publication in the Journal of Indian Museums. An illustrated Guide to the Government Museum, Pudukkottai with thirty photographs and two line-drawings, was got up for publication.

Eighty-three English and eighty-one Tamil copies of the Handy Guide to the Principal exhibits of the Government Museum, Pudukkottai were sold, the Tamil copies soon becoming out of print.

PLANS FOR THE YEAR 1962-63.

NATURAL HISTORY.

Geology.—(1) All the exhibits will be arranged in the order of their classification;

(2) Old labels will be replaced by printed ones;

(3) Photographs of geological topics will be added to the exhibits.

Botany.—(1) The necessary cabinets and equipments for starting a small herbarium, will be procured;

(2) The almyrah-type show case will be remodelled.

Zoology.—(1) The insect cases will be displayed vertically in two rows with panelled bases;

(2) The Invertebrate gallery will be rearranged in the systematic order;

(3) The Curstacean exhibits will also be rearranged;

(4) The almyrah-type show case in the Invertebrate gallery will be remodelled;

(5) All the old, spirit-specimens of fishes will be replaced by fresh ones;

(6) Two big wall-cases in the Fish gallery will be remodelled;

(7) The stuffeed specimen of the cobra will be replaced by a fresh one;

(8) The Reptile gallery will be rearranged; and

(9) All the almyrah-type show-cases in the Bird and Mammal galleries will be remodelled.

Economic Section—Agriculture.—Separate show-cases for the exposed agricultural implements will be made.

Art and Industries.—(1) The photographic enlargements of Sittannavasal will be renewed;

(2) A good specimen of khas khas curtain will be procured.

Anthropology including Pre-history.—All the ornaments will be labelled individually as far as possible.

Archaeology including Epigraphy.—(1) Both sides of each of the copper-plate exhibits will be illuminated;

(2) The last four copper-plates will be provided with labels;

(3) The Saptakanya sculptures will be illuminated;

(4) All the moth-eaten photographs in the Bronze Gallery will be renewed.

(5) The Amaravathi sculptures will be provided with glass coverings.

Numismatics.—(1) The corroded coins will be cleaned;

(2) The unidentified coins will be identified.

Library.—(1) The register of books will be rewritten;

(2) An additional glass-fronted almyrah will be purchased;

(3) Loose numbers of periodicals will be bound according to volumes.

General.—(1) The tiffin-shed will be converted into a room for use as a laboratory;

(2) A wall to protect the verandah housing the whale skeleton will be constructed;

(3) A small cycle shed will be constructed in front of the Museum;

(4) The compound will be provided with a side entrance and a gate;

(5) An overhead tank will be erected, for ensuring better water-supply;

(6) An illustrated guide to the Museum will be published.

S. T. SATYAMURTI,
Superintendent, Government Museum, Madras.

IV. Connemara Public Library (Exchanges).

The number of institutions sending their journals in exchange for the Museum Bulletin was 181 and the number of journals received from the institutions was 341. During the year under report one institution, viz., British Museum Natural History, Cromwell Road, London, was added to the exchange list and no institution was removed.

Connemara Public Library,
Madras-8.

K. RAJAGOPALAN,
Librarian.

APPENDICES RELATING TO GOVERNMENT MUSEUM, MADRAS.

APPENDIX I.

Complete list for the year 1961–62 of Treasure Trove Coins in the Madras State.

Treasure trove number. (1)	Accession number. (2)	Particulars. (3)	Metal. (4)	Number found. (5)	Number recovered. (6)	Number acquired. (7)
		A. Acquired by the Museum.				
717	902	Venetian sequins	Gold.	2	2	2
721	905	Eastern Chalukya Kongu-Chera and Telugu Chola.	Do.	34	34	2
723	906	Panam	Gold.	46	46	46
	907	Puranas	Silver.	48	48	48
725	909	East India Company Coins—Rupees and Half Rupees.	Do.	7	7	7
		B. Not Acquired.				
718	..	Kasu	Gold.	43	43	..
			Silver.	2	2	..
		Bangles	Do.	2	2	..
719	..	Coins	Gold.	6	6	..
722	..	Coins with one metal pot.	Do.	842	842	..
724	..	Coins with ring	Gold and Silver.	160	160	..
			Silver.	4	4	..
726	..	Coins	Gold.	83	83	..
728	..	Do.	Do.	14	14	..

APPENDIX II.

List of Treasure trove finds from the Madras State.

ARCHAEOLOGY.

A. Acquired by the Museum.

Treasure trove number. (1)	Accession number. (2)	Description. (3)	Place. (4)
727	461/61	(a) Somaskandasiva	Pudukkottai village, Nannilam taluk, Thanjavur district.
		(b) Uma	
		(c) Peetam—bronze	
	462/61	Parvati—big—bronze	Do.
	463/61	Parvati—small—bronze	Do.
730	464/62	Parvati—small—bronze	Kanchi Village, Mannargudi taluk, Thanjavur district.

APPENDIX II—*cont.*

List of Treasure trove finds from the Madras State.—Cont.

ARCHAEOLOGY—*cont.*

A. Acquired by the Museum.—Cont.

Treasure trove number. (1)	Accession number. (2)	Description. (3)	Place. (4)
730—*cont.*	465/62	Parvati—big—bronze	Kanchi village, Mannargudi taluk, Thanjavur district.
	466/62	Parvati—bronze	Do.
	467/62	Parvati—bronze	Do.
	468/62	Manikkavachakar—bronze ..	Do.
	469/62	Jnanasambandar—bronze ..	Do.
	470/62	Astradevar—bronze	Do.

B. Not acquired.

732	—	Hero stone	Sivagiri, Erode taluk, Coimbatore district.

ANTHROPOLOGY.

A. Acquired by the Museum.

Treasure Trove number. (1)	Accession number. (2)	Description. (3)
736	78–1 ..	*Four gold anandamudichis*—Relates to file No. 5367/61–An.—Treasure found at Nattiampatty village, Harur taluk, Salem District.
736	78–2 ..	*Nine gold beads*—Relates to file No. 5367/61–An,—Treasure found at Nattiampatty Village, Harur taluk, Salem district.
736	78–3 ..	*One gold thali*—Relates to file No. 5367/61–An,—Treasure found at Nattiampatty village, Harur taluk, Salem district.
737	78–4 ..	*One large gold coin*—Relates to file No. 5408/61–An,—Treasure, found at Eviabaiyanahalli village, Dharmapuri taluk, Salem district.

B. Not acquired.

Treasure trove number. (1)	Description. (2)	Place. (3)
717	Two gold coins, two gold rings, one gold ear-ring, one small thali of silver, one Poochikudu, five black coins.	Pullapalayam village, Karur taluk, Tiruchirappalli district.
718	Forty-three gold Kasus, two gold thali Kasus and two silver bangles.	Devaravendram village, Hosur taluk, Salem district.
724	One hundred and sixty miniature gold pieces, two gold wires, one gold ring with stones and three silver rings.	Manakkari village, Srivaikuntam taluk, Tirunelveli district.
729 } 731 }	One gold chain, two bits of gold chains, two bits of gold, one bit of a ring, one screw like bit and one ring.	Mudumalai village, Gudalur taluk, Nilgiri district.
735	Thirty gold coins and four ear ornaments.	Manavanatham village, Kallakurichi taluk, South Arcot district.
3	One gold coin, and 105 Sultan gold coins (the former was acquired and the latter was not acquired).	Eviabaiyanahalli village, Dharmapuri taluk, Salem district.

APPENDIX III.

Other notable additions to the collections.

ZOOLOGY.

Serial number and accession number.		Particulars.
(1)		(2)
1	5/1961 ..	The White-browed Gibbon, *Hylobates hoolock.*
2	13*a*/1961 ..	The Roseate Tern, *Sterna dougalli.*
3	13*b*/1961 ..	The Racket-tailed Drongo, *Dicrurus paradisus.*
4	9/1961 ..	The Sea lion, *Zalophus californianus.*
5	15/1961 ..	The Chameleon, *Chamaeleon zeylanicus.*
6	2/1962 ..	The Black-Buck or Indian Antelope, *Antilope cervicapra.*
7	3/1962 ..	The Small Indian Civet, *Viverricula indica.*
8	4/1962 ..	The Flying Squirrel, *Petaurista philippensis.*
9	5/1962 ..	Amherst's Pheasants -2 specimens (male and female)—*Chrysolophus amherstiae.*

BOTANY.

Systematic Botany.

Serial
number.

1. A composite fruit of the Indian Screw Pine (*Pandanus odoratissimus*).
2. A groundnut plant (*Arachis hypogaea*) showing the underground pods.
3. Sundew (*Drosera burmanii*).
4. White seed pods of *Abrus precatorius.*

Economic Botany.

5. Coffee seed samples.
6. Pulses.
7. Oil seeds and oils.
8. Condiments and spices.
9. Narcotics and drugs.
10. Gums and Resins.
11. Rubber.
12. Cane (*Calamus rotang*).

GEOLOGY.

Serial
number.

1 Spotted and unspotted specimens of phlogopite Mica.

2 Red Ochre.

3 Twenty-four specimens connected with pencil manufacture.

ANTHROPOLOGY.

Serial number and accessoin number.		Articles.	Particulars.
(1)		(2)	(3)
1	31/61 to 34/61 ..	4	Rangmahal potsherds.
2	35/61 to 43/61 ..	9	Somnath potsherds.
3	44/61 to 49/61 ..	6	Red and Black ware potsherds.
4	50/61 to 73/61 ..	24	Gujarat microliths (Laghnaj, Devasi, Mori, etc.).
5	74/61 to 101/61 ..	28	Palaeoliths (Maheswar, Narbada, Navdatoli, etc.).

APPENDIX III—*cont.*

Other notable additions to the collections—cont.

ANTHROPOLOGY—*cont.*

Serial number and accession number. (1)		Articles. (2)	Particulars. (3)
6	1/62 to 6/62 ..	5	Fossil Reproductions of Early man from University Museum, Philadelphia.
7	7/62 ..	1	One Sarcophagus.
8	8/62 to 96/62 ..	89	Megalithic Burial Pottery.
9	1/61 and 2/61 ..	2	Tribal Busts.
10	78-1 to 78-4 ..	4	Gold Articles—four—got as Treasure trove Finds.
11	89 and 90 ..	2	One glass Dholak and one Damarukam.

NUMISMATICS.

Serial number and how acquired. (1)	Metal. (2)	Number acquired. (3)	Particulars. (4)
1 Purchased ..	Copper ..	32	31 Pandyan and one Setupati coin.
2 Do. ..	Do. ..	103	71 Vijayanagar and 32 South Indian coins.
3 Gift	Do. ..	9	5 Salankayana. 1 Chatrapati. 1 Ceylon. 1 Vijayanagar, 1 English East India Company.
4 Gift	Silver ..	1	Rupee of Muhammed Shah (Mughal).
5 Gift	Copper ..	1	1/12 Anna of 1835.
6 Purchased ..	Copper ..	4	3 Indo-British. 1 Indo-Portuguese.
7 Purchased ..	Silver, copper, nickel and bronze.	285	Mint specimens of on rupee, ½ rupee, ¼ rupee ⅛ rupee, etc.

ARCHAEOLOGY.

Serial number. (1)	Particulars. (2)
1	A *Porcelain Basin*—A Televara pottery basin with painted designs. The basin is broken and is in four parts. 35 cm. dia.; presented by Pallicher, Lakshmi Rama Seshammal, w/o Mr. P. V. R. Naidu, Tondiarpet, Madras, as a gift; date: 5th April 1961; No. 1400/61.
2	A *Wine Goblet*—Stated to be a Libian Goblet. The Goblet is well decorated with twigs, flowers and a bird. The mouth was probably broken and so the neck is rounded off. The lid is also broken; Porcelain; presented by Palicheri Lakshmi Rama Seshammal, w/o Mr. P. V. R. Naidu, Tondiarpet, Madras, as a gift; date: 5th April 1961; No. 1401/61.
3	*Ramayana Paintings*—One set of paintings depicting various scenes from Ramayana executed on paper in the old traditional style in oil colour; presented to the Museum by Sri V. Jayaraman, 2/17, Ranganathan Street, Madras-5; date: 1st November 1961; No. 1418/61.
4	*Tiruvarur Mural*—Copy of a mural painting from Devasinya Mandapa of Tiruvarur Temple depicting procession of the deity. Copied by Sri. P. L. Narasimhamurti, 14-B, South Gangamman Koil Street, Choolaimedu; date: 4th December 1961; No. 1429/61.
5	*Tiruvarur Mural*—Copy of a mural from Tiruvarur Temple—Devasinya Mandapa depicting Muchukunda being received. Copied by Sri P. L. Narasimhamurti; date: 4th December 1961; No. 1430/61.

APPENDIX III—*cont.*

Other notable additions to the collections—cont.

ARCHAEOLOGY—*cont.*

Serial number.	Particulars.
(1)	(2)
6	*Rameswaram Mural*—Copy of a Painting from the corridor of Sri Ramanathaswami Temple of Rameswaram, depicting a scene from Ramayana. Copied by Sri P. L. Narasimhamurti; date: 4th December 1961; No. 1431/61.
7	*Rameswaram Mural*—Copy of a painting from the ceiling of the Corridor of Sri Ranganathaswami Temple of Rameswaram, depicting a king and queen. Copied by Sri P. L. Narasimhamurti; date: 4th December 1961; No. 1432/61.
8	*Pillars*—Four pillars made of hard granite. The top and bottom portion of the pillars are square while the central portion is octogonal. One of the pillars has the inscription of Mahendra Pallava–I who ruled between 600 to 620 A.D. The inscriptions in Pallava Grantha characters give the birudas of Mahendravarman.

Another pillar has lotus design. These pillars were found in a ruined mandapa near the 1000 pillared mandapa in the third prakara of the Ekambaranatha Temple at Kanchipuram.

(*a*) ht. 240 cm.	B × W.	43 × 40 cm.
(*b*) ht. 242 cm.	B × W.	42 × 42 cm.
(*c*) ht. 240 cm.	B × W.	37 × 37 cm. (flower design.)
(*d*) ht. 249 cm.	B × W.	43 × 40.

Date: 20th September 1961. No. 1410/61.

9 *Buddha.*—A plaster cast image of Buddha from Mathura with an elaborately carved circular disc at the back of the head. The figure is in a standing posture. The right fore-arm and the fingers of the left arm are broken. There is a slight dent in the right side of the nose. Both the feet from the ankles are missing. Ht, 7 feet and 210 cm. Bdth. 3 feet 90 cm. Width. 1¼ feet 37½ cm; from the Director, National Museum, New Delhi, in an exchange for some prehistoric antiquities. Dated 15th August 1961 No. 1409/61.

10 (*a*) *Linga.*—A stone image of Sivalinga showing square base, octogonal middle portion and cylindrical top.

(*b*) The upper portion of Avudaiyar is in one piece with necessary hole in the middle to slide the Linga.

(*c*) The lower part was probably in two parts, only one part being available; Rasipuram near Pudukkottai, Tiruchirappalli district No. 1419/61.

11 *Bull.*—Shown in the usual and conventional posture. A garland of bells adorns the neck. Rasipuram near Pudukkottai, Tiruchirappalli district No. 1420/61.

12 *Jyeshta.*—Shown as seated with two hands, the right holding a flower and the left placed on the thigh—wears Karandamakuta. The nose is slightly broken. Two attendants, one on either side, one also shown. Rasipuram near Pudukkottai, Tiruchirappalli district; No. 1421/61.

13 *Candikesvara.*—Shown as seated holding a parasu on the right hand and the left hand placed on the thigh. Rasipuram Tiruchirappalli district; No. 1422/61.

14 *Surya.*—Shown as standing in samabhanga holding lotus flowers on either side. The details of the face and other parts are worn out. Rasipuram, Tiruchirappalli district; No. 1423/61.

15 *Bull.*—Shown in the conventional posture, Rasipuram, Tiruchirappalli district; No. 1424/61.

16 *Vishnu.*—Seated with four arms holding his usual emblems in the upper pair of arms, while the lower is held in abhaya and varada poses respectively. Rasipuram, Tiruchirappalli district; No. 1425/61.

APPENDIX III—*cont.*

Other notable additions to the collections—cont.

ARCHAEOLOGY—*cont.*

Serial number.	Particulars.
(1)	(2)
17	*Brahma.*—Shown with four hands and three faces and seated; holds akshamala and kundika with the upper pair of arms, the lower right is in abhaya and the left in Katyavalambita. Rasipuram, Tiruchirappalli district; No. 1426/61.
18	*Durga.*—Broken below the waist—four arms—holding conch and wheel—Rasipuram, Tiruchirappalli district—1427/61.
19	*Dakshinamurti.*—Shown as seated on a hillock with four arms in the conventional pose—Rasipuram, Tiruchirappalli district—1428/91.
20	*Condolence.*—A modern Bronze of a abstractionist school, depicting two nude women seated one keeping her right hand over head and the left on her knee and another holding her and consoling. A hollow cast by Pradosh Das Gupta—Br: 40 cm; ht; 28 cm:—purchased from Sri Pradosh Das Gupta, National Gallery of Modern Art, New Delhi—1416/61.

CHILDREN'S SECTION.

Serial number.	Accession number.	Particulars.
(1)	(2)	(3)
1	1/61	One assembled model (miniature) of a Mercedes car;
2	2/61	One metal model of a propeller plane.
3	3/61	Plastic model of a jet plane;
4	4/61	Miniature plastic model of the 'Rocket'.
5	5/61	Miniature plastic model of the locomotive 'Casey Jones'.
6	6/61	Miniature plastic model of the antique car 'Pierce Arrow'.
7	7/61	Miniature plastic model of the antique car 'Stanley Steamer'.
8	8/61	Miniature plastic model of an antique horse-drawn vehicle.
9	9/61	Miniature plastic model of an antique Fire Engine.
10	10/61	Miniature model of a modern bicycle.
11	11/61	Miniature wooden model of a Sledge.
12	12/61	Wooden model of the 'Mohenjodaro cart'.
13	13/61	Miniature plastic model of a Roman chariot.
14	14/61	Miniature model of an antique bicycle.
15	15/61	Miniature model of an antique motor bicycle.
16	16/61	Miniature model of the motor bicycle, 'Prince'.
17	17/61	Miniature model of an 'air ship'.
18	18/61	A set of 12 cloth dolls illustrating the classical dances of India.

APPENDIX IV.

Visitors to the Museum.

	1960—60	1961—62
Total Number of visitors..	498,327	543,268
Total Number on Sundays	106,678	114,264
Total Number on Dwadasi day	7,406	4,502
Total number on Kannupongal day	14,807	21,123

APPENDIX IV—*cont.*

Staff.—Sri C. J. Jayadev, Officiating Assistant Superintendent, Government Museum, Madras, went on leave preparatory to retirement with effect from 1st April 1961 and Sri T. S. Sundaram was promoted as Assistant Superintendent, Government Museum, with effect from 1st April 1961. The following posts were created in connection with the scheme for Reorganisation and Development of Museums :—

(1) One Curator for Geology ;

(2) One Assistant Curator for Anthropology ;

(3) Two Gallery Guides ;

(4) One Stenographer ;

(5) Three Technical Assistants in lieu of Attenders ;

(6) Two Gallery Guards.

Photographic work.—The photographer was engaged in taking prints for record and sale to the public. A sum of Rs. 501–52 nP. was realised by sale of prints and enlargements as against Rs. 878 during the last year. During the year under report 218 negatives and 2,585 prints and enlargements were prepared.

Tours.—The Superintendent undertook tours to Pudukkottai for inspecting the Government Museum, Pudukkottai, and also toured to New Delhi and Baroda to attend the meetings of the Central Advisory Boards of Museum, Anthropology and Archaeology. The Assistant Superintendent, Government Museum undertook a tour to Pudukkottai in September 1961 to collect loose sculptures in and around Pudukkottai. The Curator for Zoology went on tour to Pamban, Krusadai and other neighbouring islands and collected marine Invertebrate specimens. The Curator for Anthropology went on tour to Kodikkari, Tanjore District to study Adivasis Pullambadi, Tiruchirappalli district; to study fossil beds, Kolli Hills, Salem District; to study Kolli Malaiyalis; Mohanur, Salem District, to study Megalithic Burials; Kanchepuram, Chingleput District, to study Pallavamedu excavations; Kunrathur, to study Megalithic Burials ; Attrambakkam, to study Palaeolithic site; and to New Delhi to bring the articles sent to the Archaeology Centenary Exhibition. The Curator, Archaeology Section, visited Tiruvarur and Ramesvaram and compared the murals copied, with the originals. He went to Bombay and brought back the exhibits loaned to west Germany for a special exhibtion. He visited Puddukkottai with the Assistant Superintendent and collected some sculptures that were found lying uncared for in the area. The Curator went to New Delhi with the exhibits loaned out for the Archaelogical Survey of India. He paid another visit to New Delhi for taking part in the Archaeological Centenary celebration. He paid a visit to Tiruvalangudi, Sirugiri, for the collection of sculptures.

Museum Theatre.—The Museum Theatre was used for 236 engagements during the year of which 168 were for dramatic performances, etc., and the rest rehearsals and meetings. A sum of Rs. 6,138 was realised as rent as against Rs. 6,524 in the previous year. A sum of Rs. 419 has in addition been credited to Government as the half share of the fees for the Caretaker's overtime attendance. Furthur the Theatre was used free of rent for four cultural performances (three performances by the cultural troupe from Rajasthan and one Popput Show by the French Puppeteers), sponsored by the Madras State Sangeeetha Nataka Academy .

Centenary Exhibition Hall.—The Centenary Exhibition Hall was used for 13 exhibitions and 6 meetings during the year under report. A sum of Rs. 675 was realised as rent as against Rs. 603 in the previous year.

APPENDIX V.

List of Photo-negatives prepared during the year 1961–62.

ZOOLOGY.

Negative Number.	Size.	Particulars.
Z. 7 44	½ plate	Golden Pheasant.
45	"	Night herons (Diorama case).

APPENDIX V—*cont.*

List of Photo-negatives prepared during the year 1961–62—cont.

Negative number. (1)	Size. (2)	Particulars. (3)
		ZOOLOGY—*contd.*
46 ..	½ plate	View of five bird cases including three Dioramas.
1 ..	¼ plate	*Ostraction gibbosus* (Coffer fish) newly stuffed specimen.
2 ..	,,	Skeleton of the whale.
3 ..	,,	Three Dolphins (Diorama) as shown in the American Museum.
4 ..	,,	Whale diagrams photographed from a book (2 figs. in one plate).
5 ..	,,	Stinging shells.
6 ..	,,	Californian Sea lion.
7 ..	,,	A photograph of a Sea lion from "Seals, Sea-lions and Walruses".
8 ..	,,	British Museum of Natural History (Central Hall copy of photograph.
9 ..	,,	National Gallery, Washington.
10 ..	,,	British Museum of Natural History (External view).
11 ..	,,	Theodore Roosvelt Main Entrance, American Natural History Museum.
12 ..	,,	Art and Industries Building, Smithosonian Institute.
13 ..	,,	Purse Seine.
14 ..	,,	Haul or Beach Seine.
15 ..	,,	Beam trawl.
16 ..	,,	Typical fyke net.
17 ..	,,	Otter trawl.
18 ..	,,	Half round eel pot.
19 ..	,,	Half round lobster pot.
20 ..	,,	Crab pot used in Chesapeake Bay.
ZF. 106 ..	Film	Pea hen (albino).
107 ..	,,	*Solenomya mediterranea.*
108 ..	,,	*Zalophus californianus.*
109 ..	,,	*Hylobates hoolock* (the White-browed gibbon).
110 ..	,,	*Emyda granosa.*
111 ..	,,	*Trionyx leithii.*
112 ..	,,	*Geoemyda trijuga.*
113 ..	,,	*Draco dussumieri.*
114 ..	,,	Hawk'sbill Turtle (*Eretmochelys imbricata*).
115 ..	,,	The Green Turtle (*Chelonia mydas*).
116 ..	,,	The Logger-head Turtle (*Caretta caretta*).
117 ..	,,	The land Tortoise (*Testudo radiata*).
118 ..	,,	Carapace of Hawk's bill turtle.
119 ..	,,	Plastron of *Trionyx leithii.*
120 ..	,,	The skeleton of *Trionyx leithii.*
121 ..	,,	The plastron of *Trionyx leithii.*
122 ..	,,	*Calotes nemericola, Mabuya carinata* and *Hemidactylus brookii.*

APPENDIX V.—*cont.*

List of Photo-negatives prepared during the year 1961–62—cont

Negative Number. (1)	Size. (2)	Particulars. (3)
		ZOOLOGY—*cont.*
123	.. Film	Courtship colouration in the Common garden lizard (*Calotes versicolor*).
ZF. 124	.. ,,	The Chameleon (*Chameleon zeylanicus*).
125	.. ,,	The head of *Gavialis gangeticus*.
126	.. ,,	The common Indian monitor (*Varanus monitor*).
127	.. ,,	The skull of *Crocodilus palustris*.
128	.. ,,	The jungle fowl (diorama case).
129	.. ,,	Banded krait swallowing another snake.
130	.. ,,	Banded krait swallowing another snake—close up.
131	.. ,,	Sea lion—special exhibition case.
132	.. ,,	Staff of Krusadai Biological station with curator.
133	.. ,,	Collection on Shingle Island.
134	.. ,,	Turtle breeding cage at Rameswaram.
135	.. ,,	Preservatives arranged inside almirah (**Krusadai**).
136	.. ,,	Attender collecting butterflies.
137	.. ,,	*Stoichactus* engulfing a prawn.
138	.. ,,	Hippopotamus (*Hippopotamus amphibius*).
139	.. ,,	*Hydrophis spiralis* and *Enhydrus curtus*.
140	.. ,,	Pigeons, sandgrouses and doves (modernised case).
141	.. ,,	Brahminy kite diorama.
142	.. ,,	Modernised show cases containing snakes.
143	.. ,,	General view of the modernised show cases containing peacock, vultures, kite, etc.
		BOTANY.
		1. External Morphology and Systematic Botany.
S.B. 1	Film ½ size.	(*a*) Display of the Bamboo rhizome and toy dogs in the specially designed built-in-type show cases.
S.B. 2	,,	(*b*) A cross-section of the stem of a 500 year old Teak (*Tectona grandis*) showing annular growth and marked with important historical events.
S.B. 3	,,	(*c*) A similar cross-section of the stem of Rosewood (*Dalbergia latifolia*) 200 years old.
		2. Economic Botany Gallery—
E.B. 4	Film ½ size.	(*a*) View of the modernised show case showing sugarcane and beverages, rubber, gums and resins, cereals and millets and pulses and the central row of sloping show cases containing exhibits on bamboo, rattan, etc.
E.B. 5	,,	(*b*) A close view of the modernised show cases displaying cotton, sugarcane and coffee.
		GEOLOGY.
1	Film ½ size.	A general view of the case containing Eocene, Oligocene and Miocene fossils.
2	,,	A mineral and fossil mounted on a cardboard with pliobond.

APPENDIX V—*cont.*

List of Photo-negatives prepared during the year 1961–62—cont.

Negative number.	Size.	Particulars.
(1)	(2)	(3)
		GEOLOGY—*cont.*
3	$\frac{1}{4}$ size.	Garnets embedded in plaster of Paris and a flat mica specimen held vertically up with a strut of plaster of Paris.
	,,	Corundum.
5	,,	A general view of the South Arcot Lignite gallery.
6	$\frac{1}{4}$ plate.	Meteorites.
7	,,	Banded hematite jasper.
8	,,	Pebbles faceted by the abrasion of wind-blown sand.
9	,,	Old Man of Hoy.
10	,,	Stratified jointed rocks in the process of weathering
		ANTHROPOLOGY.
F.3. 67	$2\frac{1}{4} \times 2\frac{1}{4}$	Toda and Kota case.
68	,,	Kadar case.
69	,,	Khond case.
70	,,	Gadaba case.
71	,,	Human skull case.
72	,,	Adivasis of Tanjore district (Kodikari village).
73	,,	Adivasis couples.
74	,,	Do.
75	,,	Do.
76	,,	Ladies group.
77	,,	Village Panchayat.
78	,,	Do.
79	,,	Measuring basket.
80	,,	Collecting fruits.
81	,,	Village Leader.
82	,,	Do.
83	,,	Adivasis family.
84	,,	Adivasis—Man.
85	,,	Adivasis –Woman—front view.
86	,,	Do. —back view.
87	,,	Do. —side view.
88	,,	Group of adivasis.
89	,,	Adivasis—Women.
90	,,	Adivasis—Village.
91	,,	Adivasis—Huts.
92	,,	Adivasis— Village.
93	,,	Adivasis—Huts.
94	,,	Adivasis—Huts.
95	,,	Two women in front of their huts.
96	,,	Group of Adivasis—Women.
97	,,	Group of Advasis—Men.

APPENDIX V—*cont.*

List of Photo-negatives prepared during the year 1961-62—cont.

Negative number. (1)		Size. (2)	Particulars. (3)
			ANTHROPOLOGY—*cont.*
	98	2¼×2¼	A lady—front view.
	99	,,	,, back view.
	100	,,	,, side view.
F. 4.	1	,,	A woman with quern.
	2	,,	Adivasis—Deity.
	23	,,	Adivasis—Group.
	35	,,	Broken burial Urn—Mohanur.
	36	,,	Broken burial Urn—Mohanur.
	37	,,	Do.
	38	,,	A set of burial objects.
	39	,,	Do.
	40	,,	Do.
	41	,,	Single burial pottery.
	42	,,	Set of objects with bones.
	43	,,	Megalithic burial site—Mohanur.
	44	,,	Burial site.
	45	,,	A burial Urn.
	46	,,	Broken burial Urn.
	47	,,	Burial Urn in a well.
	48	,,	Do.
	49	,,	Broken burial Urn.
	50	,,	Burial pottery being removed.
	51	,,	A burial Urn.
	52	,,	Mohanur—group photo.
	53	,,	Chinese bell of Museum.
	54	,,	Kadar case of Museum.
E. XXIV.	16	½ size.	Cromagnon cave painters.
	17	,,	Neanderthal men.
	18	,,	Two potteries (No. 996 and 997).
	19	,, (negative)	Two horns and arms.
	20	,,	Mohanur burial iron implements.
	21	,,	Uddukkai and Dhamarika.
	22	,,	Adichanallur excavation (renewed).
	23	,,	Cage Gallows.
	24	,,	New modernised Ethnology cases.
	25	,,	The emergence of Man.
	26	,,	The emergence of Compelx life.
E. XXV.	38	¼ size plate.	Dolak.
	39	,,	Drum.
	40	,,	Burial Pottery.
	41	,,	Mohanur burial potteries.

APPENDIX V—*cont.*

List of Photo negatives prepared during the year 1961–62—*cont.*

Negative number. (1)	Size. (2)	Particulars. (3)
		ARCHAEOLOGY—*cont.*
1203	Small	The battle of Asura, Tiruvarur.
1204	,,	Gauriprasadamurti, Kailasanatha, Kancheepuram.
1205	,,	Gajasamhara, Muttesvara, Kancheepuram.
1206	,,	Gangadhara, Muttesvarar, Kancheepuram.
1207	,,	Mukteswara Temple—Kancheepuram.
1209	,,	Kanappar, Darasuram.
1210	,,	Virabhadra, Darasuram.
1211	,,	Three-headed seated figure, Darasuram.
1212	,,	Lingodbhava, Darasuram.
1213	,,	Ardhanarisvara—Darasuram.
1214	,,	Dhakshinamurti, Darasuram.
1215	,,	Asvamukhi, Darasuram.
1216	,,	Chandikesvara, Darasuram.
1217	,,	Gopura detail—inner face—upper tier—East Gopura —Chidambaram.
1218	,,	Gopura detail—inner face—upper and lower tier—Chidambaram.
1219	,,	Kalyanasundara, East Gopuram, Chidambaram.
1220	,,	Gangadhara and Chandrasekhara, Chidambaram.
1221	,,	East Gopura, inner view, Chidambaram.
1222	,,	Dancing scene, East Gopuram, Chidambaram.
1223	,,	Vase ornament, East Gopuram, Chidambaram.
1224	,,	Upper and lower tier—inner right—East Gopura, Chidambaram.
1225	,,	Dancing scene, East Gopuram, Chidambaram.
1226	,,	Dvarapalaka, East Gopuram, Chidambaram.
1227	,,	Kulothunga and his Minister, Chidambaram.
1228	,,	Portraits of chiefs, Chidambaram.
1229	,,	Dvarapalaka, South Gopuram, Chidambaram.
1230	,,	Upper and lower tier.
1231	,,	Kamadeva with consorts, Chidambaram.
1232	,,	Rahu and Ketu, Chidambaram.
1233	,,	Narada, South Gopuram, Chidambaram.
1234	,,	Surya, South Gopuram, Chidambaram.
1235	,,	Ganesa, South Gopuram, Chidambaram.
1236	,,	Dvarapalaka, South entrance to the Sabapathi Shrine—left.
1237	,,	Dvarapalaka, South entrance to the Sabapathi Shrine—right.
1238	,,	Mahishamardani, West Gopuram, Chidambaram.
1239	,,	Bhadrakali, West Gopuram, Chidambaram.
1240	,,	Bhadrakali, West Gopuram, Chidambaram—close up.
1241	,,	Vase ornament, West Gopuram, Chidambaram.
1242	,,	Kulothunga and his minister, West Gopuram, Chidambaram.

APPENDIX V—*cont.*

List of Photo negatives prepared during the year 1961-62—cont.

Negative number. (1)	Size. (2)	Particulars. (3)
		ARCHAEOLOGY—*cont.*
1243	Small	Nataraja and Sivakami. mural in the Mantapa in front of the Amman shrine.
1244	„	Surya—painting—same as above.
1245	„	Sankhanidhi—inner west enterance.
1246	„	Lion.
1247	„	Vimana, Chit Sabha, Chidambaram.
1248	„	A Nayika from Devasabha, Chidambaram.
1249	„	Vaijayan, West Gopuram, Chidambaram.
1250	„	A deity, West Gopuram, Chidambaram.
1251	„	Three-headed deity (probably Varuna) West Gopuram Chidambaram.
1252	„	Dancing scene, West Gopuram, Chidambaram.
1253	„	Dvarapalaka, West Gopuram, Chidambaram.
1254	„	Agni, South Gopuram, Chidambaram.
		CHEMICAL CONSERVATION SECTION.
C II. 25	¼ size plate.	Two consorts before treatment.
26	„	Two consorts after treatment.
27	¼ size	Venugopala with two consorts after treatment.
28	plate.	Two shadow play figures before treatment.
29	„	Two shadow play figures after treatment.
30	„	A wood carving before treatment.
31	„	A wood carving after treatment.
32	„	A bronze Buddha before treatment.
33	„	A bronze Buddha after treatment.
C. II. 34	„	A wood carving before treatment.
35	„	A wood carving after treatment.
C. III. 104	„	Leather paintings—before treatment.
C. II. 51	½ size plate.	Do. Do.
52	„	Do. Do.
C. III. 105	¼ size plate.	Image before and after treatment copied from Dr. Paramasivam's thesis.
106	„	
C. III.	„	A Transmitter Unit.
C. III.	„	Three bronze images.
C. III.	½ size plate.	Wooden panels before and after treatment.
C. II. 24	¼ size plate.	Newly extended buildings.
		CHILDREN'S SECTION.
CH. II. 1	¼ size plate.	View of the Children's gallery.
CH. II. 2	„	Land and air Transport case.
CH. F. 16	½ size plate.	General view of the Children's gallery.
CH. F. 17	„	Land and air Transport case.
CH. F. 18	„	Animal Kingdom.
CH. F. 19	„	Sense organs.

APPENDIX VI.

Price list of Madras Government Museum Bulletins (New Series).

Note.—Orders for copies of the publications should be accompanied by remittance to cover the cost and postage. For the trade terms, the Superintendent, Government Press, Madras, or the Superintendent, Government Museum, Madras, should be addressed.

Price List of Madras Government Museum Bulletins (New Series).

Volume and number. (1)	Descri (2)	Number of pages. (3)	Number of plates. (4)	Price. (5) RS.	nP.
	NATURAL HISTORY SECTION.				
Vol. 1, No. 1, 1927.	The Littoral Fauna of Krusadai Island in the Gulf of Mannar, with appendices on the vertebrates and plants. By various authors.	196	26	8	00
† Vol. I, No. 2, Part I, 1933.	Supplement to the Littoral Fauna of Krusadai Island in the Gulf of Mannar—Polychæta by P. Fauvel, Pycnogonida by B. Sundara Raj, and Alpheidæ by F. H. Gravely.	79	1	2	00
† Vol. I, No. 2, Part 2, 1931.	Three Species of Alcyonaria. By Sydney J. Hickson F.R.S. (with three test figures).	9	Nil.	0	25
† Vol. I, No. 2, Part 3, 1936.	Scyphomedusæ of Krusadai Island, By M.G.K. Menon, M.A.	9	1	0	50
† Vol. I, No. 2, Part 4, 1937.	Supplement to the Littoral Fauna of Krusadai Island in the Gulf of Mannar—Porifera. By M. Burton, D.SC.	58	1	1	87
‡ Vol. I, No. 2, Part 5, 1943.	The Foraminifera of Krusadai Island in the Gulf of Mannar By C. P. Gnanamuthu, M.A., D.SC., F.Z.S.	21	4	1	37
Vol. I, No. 2, Part 6.	Amphineura and Gastropoda of Krusadai Island. By S. Thomas Satyamurti, M.A., F.Z.S.	267	34	10	75
Vol. I, No. 2, Part 7.	Scaphopoda Pelecypoda and Cephalopoda of Krusadai Island. By S. T. Satyamurti, M.A., D.SC., F.Z.S.	202	30	9	37
‡ Vol. II, 1929.	The Flowering Plants of the Madras City and its immediate neighbourhood. By P. V. Mayuranathan, B.A., Botanical Assistant, Madras Museum.	345	38	8	00
Vol. III, No. 1, 1930.	The Scyphomedusæ of Madras and the neighbouring coast. By M. G. K. Menon, M.A., Research Scholar, Madras University Zoological Laboratory.	28	3	1	12
Vol. III, No. 2, 1932.	The Hydromedusæ of Madras. By M. G. K. Menon, M.A.	32	3	1	12

† This number is reserved for supplements to Krusadai Island, Fauna.

‡ Out of Stock.

APPENDIX VI—*cont.*

Price List of Madras Government Museum Bulletins (New Series)—cont.

Volume and number. (1)	Description. (2)	Number of pages. (3)	Number of plates. (4)	Price. (5) RS.	nP.
	NATURAL HISTORY SECTION—*cont.*				
Vol. III, No. 3, 1933.	The Life Histories of Decapod Crustacea from Madras. By M. Krishna Menon, M.A.	45	10	Bound in one volume.	
Vol. III, No. 4, 1933.	Sagitta of the Madras Coast. By C. C. John, M.A., D.SC.	10	1	2	37
Vol. III, No. 5, 1937.	Decepod Larvæ from the Madras Plankton. By M. Krishna Menon, M.A., M.SC.	55	9	1	87
Vol. III, No. 6, 1940.	Decapod Larvæ from the Madras Plankton—II. By M. Krishna Menon, M.A., M.SC.	47	8	1	50
Vol. IV, No. I, 1931.	The Indian Species of Genus Caralluma (Fam, Asclepiadaceæ). By F. H. Gravely, D.SC., and P. V. Mayuranathan, B.A., Government Museum, Madras.	28	4	1	50
‡ Vol. IV, No. 2, 1938.	Supplement to the Flowering Plants of Madras City and its immediate neighbourhood. By E. Barnes, D.SC.,	46	7	1	67
Vol. V, No. 1, 1941.	Shells and other Animal Remains found on the Madras Beach, I. Groups other than snails, etc. By F. H. Gravely, D.SC.	112	Nil.	3	12
Vol. V, No. 2, 1942.	Shells and other Animal Remains found on the Madras Beach. II Snails, etc. (Mollusca Gastrapoda). By F. H. Gravely, D.S.C.	110	Nil.	2	75
Vol. VI, No. 1, 1949.	The Thaliacea of the Madras Plankton. By R. Velappan Nair, M.SC.	41	6	1	75
‡ Vol. VI, No. 2.	Cirripedia of the Madras Coast. By A. Daniel.	40	16	2	37
Vol. VI, No. 3, 1959.	The Amphipoda of the Madras Coast. By K. Nagappan Nair, M.SC.	59	16	4	35
Vol. VI, No. 4, 1960.	The Land and Freshwater Mollusca in the Collection of the Madras Government Museum, By S. T. Satyamurti, M.A., D.SC., F.Z.S.	174	21	13	00
1960.	Guide to the Snakes exhibited in the Reptile Gallery By S. T. Satyamurti, M.A., D.SC., F.Z.S.	25	—	00	75
	GENERAL SECTION (WITH SEPERATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RESPECTIVELY).				
‡ Vol. I, No. 1, 1929.	Buddhist Sculptures from a Stupa near Goli village, Guntur district. By T. N. Ramachandran, M. A.	44	4	2	75
‡ Vol. I, No. 2, 1932.	Catalogue of the South Indian Hindu Metal Images in the Madras Government Museum, By F. H. Gravely, D.SC., and T. N. Ramachandran, M.A.	144	23	5	50

‡ Out of stock.

APPENDIX VI—*cont.*

Price List of Madras Government Museum Bulletins (New Series)—cont.

Volume and number.	Descripton.	Number of pages.	Numbre of plates.	Price.	
(1)	(2)	(3)	(4)	(5)	
				RS.	NP.
	GENERAL SECTION (WITH SEPARATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RESPECTIVELY)—*cont.*				
‡ Vol. I, No. 3, 1934.	Thiruparuttikundram and its temples with appendices on Jaina units of measurement and time, cosmology and classification of souls, By T. N. Ramachandran, M.A.	260	37	11	25
Vol. II, No. 1, 1930.	The Adichanallur skulls. By S. Zuckerman, M.A., M.R.C.S., L.R.C.P., with Notes by Prof. G. Elliot Smith, F.R.S.	24	3	1	37
Vol. II, No. 2, 1931.	The Sri Vaishnava Brahmans. By Diwan Bahadur K. Rangachari, M.A., L.T.	158	2	5	75
Vol. III, No. 3. 1931.	Catalogue of the Musical Instruments exhibited in the Government Museum Madras. By P. Sambamurthi, B.A., B.L., (Revised Edition).	25	9	1	25
‡ Vol II, No. 4, 1937.	Social and Physical Anthropology of the Nayadis of Malabar. By A. Aiyappan, M.A.	141	12	3	12
Vol. III, No. 1 1934.	The Three Main Styles of Temple Architecture recognized by the Silpasastras. By F. H. Gravely, D.SC., and T. N. Ramachandran, M.A.	26	2	1	00
‡ Vol. III. No. 2, 1936.	An Outline of Indian Temple Architecture. By F. H. Gravely, D.SC.	23		0	87
Vol. III. No. 3, 1938.	Catalogue of Venetian Coins in the Madras Government Museum By T. G. Aravamuthan, M.A., BL.	59	1	1	50
‡ Vol. III, No. 4,	Indian Epigraphy and South Indian Scripts. By C. Sivaramamurthi, M.A.	280	12	14	50
1939. ..	Guide to the Archaeological Galleries. An Introduction to South Indian Temple Architecture and Sculpture. By F. H. Gravely. D.SC, and C. Sivaramamurthy, M.A, and other Curators.	48	8	1	00
1939 ..	Illustrations of Indian Sculpture—Mostly Southern. For use with the Guide to the Archaeological Galleries. By F. H. Gravely, D.SC., and C. Sivaramamurthi. M.A.	..	45	1	00
Vol. IV. 1942..	Amaravati Sculptures in the Madras Government Museum. By C. Sivaramamurti, M.A.	376	65	16	50
‡ Vol. V. No. 1, 1944.	Iravas and Culture Change. By A. Aiyappan, M.A., PH.D. (London).	204	12	16	62

‡ Out of stock.

APPENDIX VI—*cont.*

Price List of Madras Government Museum Bulletins (New Series)—cont.

Volume and number.	Description.	Number of pages.	Number of plates.	Price.	
(1)	(2)	(3)	(4)	(5)	
				RS.	nP.
GENERAL SECTION (WITH SEPARATE VOLUMES FOR ANTHROPOLOGY AND ARCHAEOLOGY RERPECTIVELY)—*cont.*					
Vol. VI, No. 1, 1952.	Possible Sumerian Survivals in Toda Ritual. By H.R.H. Prince Peter of Greece, M.A. (Hry), LLD.	24	10	6	30
‡ 1952	Madras Government Museum Centenary Souvenir, (1851–1951.)	158	12	5	00
1952	Guide to the Buddhist Antiquities. By A. Aiyappan and P. R. Srinivasan.	58	..	1	62
‡ Vol. VII, No. 1, 1954.	Nagapatnam Bronzes. By T. N. Ramachandran.	150	30	6	00
1953	Coins of India Through the ages ..	17	3	8	00
‡ 1957	Early Eastern Chalukyan Sculpture By C. Sivaramamurti.	71	35	6	62
Vol. VII, No. 3, 1959.	Select Satavahana Coins in the Madras Government Museum. By M. Rama-Rao, M.A., PH.D.	23	2	1	75
Vol. VII, No. 4, 1959.	Beginnings of the Traditions of South Indian Temple Architecture. By P. R. Srinivasan, M.A.	34	..	1	70
Vol. VII, No. 5, 1959.	The Gopuras of Tiruvannamalai. By F. H. Gravely, D.SC.	8	13	5	90
1960	Handbook of Museum Technique, Edited by A. Aiyappan, M.A., PH.D., and S. T. Satyamurti, M.A., D.SC., F.Z.S.	228	11	2	75
Scripts in and around India by Kanniyan				2	70
Guide to Snakes in the Reptire Gallery by S. T. Satyamurti (Tamil).				0	62
Story of Buddhism with special reference to South India by A. Aiyappan and P. R. Srinivasan.				1	00
Kalai Chelvangal by R. Nagaswamy.				1	00

Catalogues (Old Series)

‡ 1.	Catalogue of Pre-historic Antiquities—By R. Bruce Foote—1801.	5	25
2.	The Foote Collection of Indian Pre-historic and Protohistoric Antiquities. Catalogue Raisonne—Hy R. Bruce Foote—1214..	2	00
3.	Catalogue of Pre-historic Antiquites from Adichanallur and Perumbair—By A. Rea—1915.	1	50
4.	The Foote Collection of Indian Pre-historic and Protohistoric Antiquities. Notes on their Ages and Distribution—By R. Bruce Foote—1916.	9	75
‡ 5.	Catalogue of Exhibits in the Economic Products Section except wood Specimens—By S. N. Chandrasekara Ayyar—1921.	2	12
6.	Catalogue of the coins of Haider Ali and Tippu Sultan—By J. R. Henderson—1921.	4	00
‡ 7.	Catalogue of copper-plate grants	0	37
8.	Gramophone records of the languages and dialects of the Madras Presidency. Text of Passages.	1	25
9	Catalogue of Batrachia, Salientia and Apoda (Frogs, Toads and Coecilians of South India)—By E. Thurston—1888.	2	5

‡ Out of stock.

APPENDIX VI—*cont.*

Catalogues (Old Series)—cont.

Volume and number. (1)	Description. (2)	Price. (3) RS.	nP.
‡ 10.	Guide to the Natural History and Mineral Galleries—1890 ..	0	13
‡ 11	Science Series No. 1—Preliminary Report on the Marine Fauna of Rameswaram—1887.	0	62
‡ 12.	Coins of Sultans of Delhi—By E. Thurston—1893	0	19

Bulletins (Old Series).

Volume and number.	Description.	Price. RS.	nP.
‡ 1. No. 1 ..	Pearl and Chank Fisheries in the Gulf of Mannar By E. Thurston—1895.	1	25
2. No. 3 ..	Rameswaram Island and Fauna of the Gulf of Mannar. By E. Thurston—1895.	1	50
‡ 3. Vol. II. No.1	Anthropology : Badagas and Irulas of the Nilgiris Paniyans of Malabar : A Chinese-Tamil Cross, A Cheruman skull : Kuruba or Kurumba: summery of results. By E. Thurston—1897.	2	00
4. Vol. II. No.2	Anthropology : Eurasians of Madras and Malabar : Note on Their Tattooing, etc. By E. Thurston—1898.	1	00
5. Vol. III. No. 2.	The Sea Fisheries of Malabar and South Kanara By E Thurston—1900.	1	25
6. Vol. III No. 3.	Anthropology : Nayars of Malabar. By F. Fawcett —1901.	1	50
‡ 7. Vol. IV, No. 2.	Anthropology : The Dravidan Head Yanadis of Nellore—1902.	1	00
‡ 8. Vol. IV, No. 3.	Anthropology : Some Marriage Customs in South India : Deformity and Mutilation : Uralis, Sholagas and Irulas : Fire walking in Ganjam, Corporal punishment in vernacular schools—1903.	0	75
9. Vol. V, No. 1.	Anthropology : Vision of the Uralis and Shologas : More marriage customs in Southern India: Hook-swinging, Pulayans—1903	1	00

APPENDIX VII

Receipts and Expenditure.

A. Receipts.—

		RS.	nP.
1	Sale of coins, plaster casting and metal casts of coins	2,353	95
2	Sale of photo-prints, copy right fees and reproduction, etc.	501	52
3	Sale of Publications	2,599	67
4	Sale of Picture Post cards	209	50
5	Sales tax on Photos, coins, etc..	78	21
6	Rent for the use of the Museum Theatre	6,058	00
7	Rent for the use of the Centenary Exhibition Hall ..	750	03
8	Rent for the use of the Museum Restaurent	1,884	00
9	Overtime for the Theatre Care-taker	838	00
10	Miscellaneous receipts	5,191	20
	Total ..	20,464	05

‡ Out of stock.

APPENDIX VIII

List of Honorary Correspondents.

Honorary correspondents of the Government Museum for 1961–62.

Serial number and name of the district. (1)	Name and address of the Honorary Correspondents. (2)
1 The Nilgiris	Sri S. R. Narayana Ayyar, B.A., B.L., Advocate, Coonoor.
	Sri M. Lingam, B.A. B.L., Advocate, Ootacamund.
2 North Arcot ..	Sri S. Jesurathnam, B.A., B.Sc., Principal, Voorhees College, Vellore.
	Sri R. Ranganatha Mudaliar, B.A., B.L., Advocate, Vellore.
3 Thanjavur	Sri Srinivasa Iyer, B.A., B.L., Advocate and M.L.A., Pudukkottai.
	Sri N. S. Ramalingam, B.A, M.L.A., Nedumbalam, Tiruthuraipoondi Taluk.
4 Coimbatore ..	Sri A. Pandurangam, M.A., History Lecturer, Mahajana College, Erode.
	Sri G.R. Damodaran, Principal, P.S.G. College, Peelamedu.
5 Tiruchirappalli ..	Sri N. Vedantachari, B.A. B L., Advocate, Karur.
	Sri T. Srinivasan, M.A., St. Joseph's College, Tiruchirappalli.
6 Ramanathapuram. ..	Sri A K.D. Venkata Raju, B.A., B.L., G.K. Manram. Rajapalayam.
	Sri M. Rajah Iyer, M.A., L.T., Headmaster, Rajah's High School, Ramanathapuram.
7 Madras	Sri K. Chandrsekaran, Dr. Rangachari Road, Madras-4.
	Sri T. Venugopal Rao, 47, Harris Road, Madras-2.
8 Kanyakumari ..	Sri P. Ramaswami Pillai, Advocate, Eraniel.
	Sri G. Chandrasekhar, Manager, Babuji Memorial High School, Manavalakurichi.
9 Chingleput	Sri D.K. Sampath, Advocate, Chingleput.
	Sri P. Krishnaswami Iyengar, Public Prosecutor, Chingleput.
10 Tirunelveli	Sri K.S. Ganapathi Pillai, Principal, M.D.T. Hindu College, Pettai, Tirunelveli.
	Sri A. Srinivasa Raghavan, M.A., Principal, V.O.C. College, Tuticorin.
11 South Arcot	Sri G. Vagheesam Pillai, M.L.A., Kanagasabainaga, Chidambaram.
	Dr. P. Govindan, M.A., PH. D. (Michingan), Prof. of Zoology, Annamalai University.
12 Salem ..	Sri N. Srinivasan, M.A., Retired Principal of Salem College, Salem.
	Sri S. Satyanarayanan, B.Sc., (Tech.). F.E.L. U.N.O., Managing Director, The South India Glass and Enamel Works Limited., Cherry Road, Salem.
13 Madurai	Sri G. Lazarus, Municipal High School, Dindigul.
	Rev. E. Ugarte S.J. Secred Heart College, Shembaganar.

APPENDICES RELATING TO THE GOVERNMENT MUSEUM, PUDUKKOTTAI.

APPENDIX A.

Statement showing the number of visitors during the year 1961–62.

Month.	Literates.		Illiterates.		Purdah Ladies.	Students and Teachers.			Grand total.
	Males.	Females.	Males.	Females.		Teachers.	Boys.	Girls.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1961—									
April	2,860	2,864	3,740	3,666	25	..	..	..	13,155
May	3,019	3,047	3,667	3,934	65	..	..	..	13,732
June	2,926	3,171	3,987	3,724	55	7	..	57	13,927
July	2,809	3,368	4,054	4,356	74	29	101	203	14,994
August	3,585	4.091	3,910	4,018	424	24	363	50	16,465
September	3,793	3,783	4,762	4,722	23	37	271	287	17,678
October	3,002	2,686	3,351	3,339	35	28	332	67	12,840
November	3,283	3,132	3,944	4,039	87	45	535	81	15,146
December	3,122	3,043	3,772	3,766	31	6	50	115	13,905
1962—									
January	3,435	3,339	3,996	3,805	61	31	425	57	15,149
February	2,828	2,924	3,552	3,544	39	30	237	116	13,270
March	2,675	2,873	3,878	4,107	58	43	463	155	14,252
Total ..	37,337	38.321	46,613	47,020	977	280	2,777	1,188	1,74,513

Remarks.
(11)

1960–61.		1961–62.	
Total number of visitors	1,64,928	Total number of visitors .. .	1,74.513
Daily average	587	Daily average	612
Percentage of literate visitors	47 per cent.	Percentage of literate visitors	43 per cent.

APPENDIX B.

List of educational institutions which visited the Museum during the year 1961–62.

1 St. Mary's High School, Devakkottai.
2 St. Philomena's Girl's High School, Tiruchirappalli.
3 Kalaimagal Higher Elementary School, Thuravakkadu.
4 Kallal Panchayat Union Elementary School, Kallal; Ramanathapuram district.
5 Nehuru Higher Elementary School, Athangudi.
6 D. N. Board High School, Perumalpalayam.
7 Board Higher Elementary School, Paramakudi.
8 Panchayat Union Elementary School, Thiruvarangulam
9 Board Elementary School, Sengamalam.
10 Board Elementary School, Ammaiyavachi, Tiruchirappalli district
11 Panchayat Union Elementary School, Aladukkimunai.
12 Ulaga Iratchagar Higher Elementary School, Palakkarai.
13 Panchayat Union Elementary School, Nathem Block, Madurai district.
14 Secondary School, Anaichanam Chozhan Block, Tanjore district.
15 Board Higher Elementary School, Arasvakkulam.
16 Board High School, Keeranur.
17 Board High School, Keeranur.
18 Shantiniketan Ashram Basic Elementary School, T. Kallupatti.
19 Panchayat Union School, S. R. Pattanam, Kallal.
20 Board High School, Annavasal.
21 Sarasvathi School, Bheemnagar, Tiruchirappalli.
22 Board High School, Annavasal.
23 Panchayat Union Elementary School, Keeranur.
24 Ramamanthiram Girl's High School, Senkottai.
25 Board High School, Ponnamaravathi.
26 R. C. Training School, Tiruchirappalli.
27 Teachers Basic Training School, Pudukkottai.
28 T. E. L. C. Junior Basic School, Pudukkottai.
29 Sri Kulapathy Secondary School, Pudukkottai.
30 Rajapettah Higher Elementary School, Pudukkottai.
31 R. C. Senior Basic School, Pudukkottai.
32 St. Mary's Higher Elementary, R C. East Gater, Madurai.
33 Girls High School, Madurai.
34 Hajanathul Zaria Higher Elementary School, Pudukkottai.
35 Sarada Basic Elementary School, Pudukkottai.
36 Municipal Elementary School, Tirugokarnam.
37 Ponnaiah High School, Tiruchirappalli.
38 Board Elementary School, Konnayampatty.
39 Holy Cross College High School, Tiruchirappalli.
40 Board Higher Elementary School, Vayalogam.
41 Board High School, Arimalam.
42 Panchayat Union Elementary School, Tiruppattur.
43 Panchayat Union Elementary School, Melakkottai.
44 Panchayat Union Elementary School, Rajapatti.
45 Municipal Elementary School, Rajagopalapuram.

APPENDIX B—*cont.*

List of educational institutions which visited the Museum during the year 1961-62—cont.

46 Karambakkudi High School, Karambakkudi.

47 Board Elementary School, Kulithalai.

48 Phinle Elementary School, Mallai.

49 S. B. F. High School, Ramachandrapuram.

50 Basic Elementary School, Orathanad.

51 Girls' Christian High School, Thanjavur.

APPENDIX C.

List of distinguished persons who visited the Museum during the year 1961-62.

Serial number, name and designation.	Date of visit.
(1)	(2)
1 Sri C. Sivaramamurti, Keeper, National Museum, New Delhi.	22nd July 1961.
2 Sri M. S. Sarangapani, Commissioner, Hindu Religious and Charitable Endowments, Madras.	9th September 1961.

APPENDIX D.

List of specimens added to the Government Museum, Pudukkottai, in 1961-62.

Geology—

1 Quartz, Kurivikkondanpatti.

2 Quartzite, Kuruvikkondanpatti.

3 Gneissose granites, Kuruvikkondanpatti (two).

4 Fossil wood, Arimalam (two).

5 Photograph of a bunch of rock-crystals.

6 Photograph of an *Alectryonia* sp.

Botany—

7 Photograph of the Sacred Basil and the Turmeric.

Zoology—

8 Beetles (sixty).

9 Butterflies (six).

10 Dragonfly.

11 Photograph of Turbinarian and Madreporarian corals.

12 Photograph of butterflies in the field.

13 Photograph of *Batocera* sp.

14 Photograph of Wolf Spider.

15 Praying Mantis (*Mantis religiosa*).

16 Specimens to shows developmental stages in the life history of frog.

17 Photograh of the Indian Toad,

APPENDIX D—*cont.*

List of specimens added to the Government Museum, Pudukkottai, in 1961–62—cont.

Zoology—

18 Eggs of the turtle (six).

19 Russell's Viper (*Vipera russelli*).

20 Photograph of the Short-toed Eagle.

21 Photograph of the Spotted Owlet.

22 Photograph of the Scavenger Vulture.

23 Photograph of the Hoopoe.

24 Photograph of the Common Macaque and Langur monkeys.

25 Photograph of the Flying Foxes.

26 Photograph of the Golden Cat.

27 Photograph of the Indian Bison.

28 Photograph of the Indian Hare.

29 Photograph of the Black Buck.

30 Photograph of the Indian Lion.

Art and Industries—

31 Photograph of a picture of the Coat-of-arms of the Tondaiman rulers of the erst-while Pudukkottai State.

32 Photograph of wood carving of Anjaneya from Kudumyamalai.

33 Photograph of a pith-model of Rock Fort, Tiruchirappalli

34 Fine grass silk mats of Pattamadai (two).

Anthropology (including Prehistory)—

35 Thanthi Panai.

36 Photograph of the common ornaments and jewels.

37 Crudely-worked microliths, Kuruvikkondanpatti (three).

38 Core-rook for microliths, Kuruvikkondanpatti.

39 Photograph of a model oist-burial.

40 Photograph of military veohicles.

Archaeology (including Epigraphy)—

41 Photograph of Devi Chakram.

42 Photograph of Maheswari.

43 Photograph of Varahi.

44 Photograph of Surya.

45 Photograph of Shanmukha.

46 Photograph of Arthanareesvara.

47 Photograph of Tripurantakamurti.

48 Photograph of Tripurasundari.

49 Photograph of Vishnu, 11 cent. A.D.

50 Photograph of Vishnu, 10 cent A.D.

51 Photograph of dancing Sambanda, 15–16 cent. A.D.

52 Photograph of dancing Sambanda, 13–14 cent. A.D.

53 Photograph of dancing Sambanda, 12–13 cent. A.D.

54 Photograph of Sambanda, 11–12 cent A D.

55 Photograph of Manikkavachakar.

56 Photograph of Lakshmi (standing).

57 Photograph of Badrakali.

APPENDIX D—*cont.*

List of specimens added to the Government Museum, Pudukkottai, in 1961-62—cont.

Archaeology:—

58 Photograph of Durga with Tiruvachi.

59 Photograph of Durga without Tiruvachi.

60 Photograph of Nandikesvara.

61 Photograph of Uma with Tiruvachi

62 Photograph of Uma, 12–13, cent A.D.

63 Photograph of Sivasukhasanamurthi with Tiruvachi.

64 Photograph of Sivasukhasanamurti, 11–12 cent. A.D.

65 Photograph of Narasimha disembowelling Hiranyakasipu while Prahalada stands in devotion.

66 Photograph of Appar.

67 Photograph of Chandrasekhara.

68 Photograph of Alingana Chandrasekhara.

69 Photograph of Bhu Devi.

70 Photograph of Ganesha (standing)

APPENDIX E.

List of books added to the Museum Library during 1961–62.

Serial number and description.	Remarks.
1 Revised Flag Code, 1960	Presented.
2 Marg, Vol. XIV, March 1961, No. 2	Subscribed.
3 Man in India, Vol. 41, No. 2	Do.
4 Prince of Wales Museum of Western India Report for the year 1959–60.	Presented.
5 Journal of the Bombay Natural History Society, Vol. 58, No. 1.	Subscribed.
6 Marg, Vol. XIV, June 1961, No. 3.	Do.
7 A note on Planning for Rural Children's Museum in India.	Presented.
8 Children's Museum in India	Do.
9 Children's Zoo	Do.
10 Man in India, Vol. 41, No. 3	Subscribed.
11 General Provident Fund Rules (Madras) 1961 ..	Presented.
12 Glossary of Indian Medicinal Plants by R. N. Chopra, S. L. Nayar, I.C. Chopra.	Subscribed.
13 Journal of the Bombay Natural History Society, Vol 58, No. 2.	Do.
14 Mangroves by M. S. Chandrsekhar	Presented.
15 Rocks and Minerals by Herbert S. Zim and Paul R. Shaffer.	Subscribed.
16 Guide Book: Shri Girdharbhai Sangrahalaya, Amreli 1961.	Presented.
17 Marg Vol. XIV, September 1961, No. 4	Subscribed.
18 Madras Financial Code, Vol. I, 3rd Edition ..	Presented.

APPENDIX E—*cont.*

List of books added to the Museum Library during 1961–62—cont.

Serial number and description.	Remarks.
19 Ind an Museums Review, 1958–59, By Ministry of Information and Cultural Affairs, Government of India.	Presented.
20 Catalogue of Ornamental Plants, Seeds, etc., for sale at the Government Botanical Gardens, Ootacamund.	Subscribed.
21 List of Inadmissible Medicines, Government of Madras, 1961.	Presented.
22 Marg, Vol. XV, No. 1, December 1961	Subscribed.
23 Journal of the Bombay Natural History Society, Vol. 53, No, 3.	Do.

APPENDIX F.

Statement showing the newly made show cases, etc., for the different sections of the Museum, during the year 1961—62.

Serial Number and sections. (1)	Newly made show cases or other carpentry work. (2)
1 Geology .. .	Framing one map of India.
2 Zoology .. .	Repairing the show-case of the white-breasted water-hen and providing a wooden panelled base for the same.
3 Do.	Repairing the show-case of the Demoiselle Crane and providing a woodon panelled base for the same.
4 Do.	Repairing the show-case of the Ducks and Geese and providing a wooden panelled base for the same.
5 Do.	Fram ng twelve nature photographs.
6 Agriculture	Providing a wooden panelled base for the show-case of the models of agricultural implements and tools.
7 Anthropology (including Pre-history)	Making a suitable stand of slats of wood, for the specimen of Thanthi Panai.
8 Do.	Altering three (file) trays suitably, for the display of stone balls, cannon balls and exploded shells.
9 Archaeology (including Epigraphy)	Making thirteen bracket pedestals for the display of exhibits of copper-plate grants.
10 Do.	Dismantling and removing the unwieldy cupb oards of the Epigraphy exhibits and remantling them at the tiffin shed.
11 Library	Conversion of the large sliding doors of a book-rack in the Library into small hinged ones.
12 General	Providing the entrance door with a 'D' lock.
13 Do.	Conversion of an old and improvised rack into an almirah for office use.
14 Do.	Opening and repairing a stuck-up lock of an almirah in the office.
15 Do.	Providing the Museum buildings with two prominent name-boards.

APPENDIX G.

List of Photographic Negatives prepared in the Government Museum, Pudukkottai, during 1961–62.

Negative Number. (1)			Size. (2)	Particulars. (3)
An.	I	3	Half ..	Spears, boomerangs, bows, etc.
An.	II	1	Quarter ..	Some common jewels and ornaments.
An.	II	2	Do. ..	Military vehicles.
An.	II	3	Do. ..	Model of Cist–burial.
Ar.	III	9	Do. .	Devi Chakram.
Ar.	III	10	Do. .	Alingana Chandrasekhara.
Ar.	III	11	Do. ..	Tripurantakamurti.
Ar.	III	12	Do. ..	Narasimha disembowelling Hiranyakasipu, and Prahlada standing in devotion.
Ar.	III	3	Quarter ..	Trisula from Amaravathi stupa.
Ar.	III	14	Do. ..	A view of the re-arranged Epigraphy gallery.
At.	I	1	Do ..	Pith-model of Rock Fort, Trichy.
At.	I	2	Do, ..	Anjaneya (wood–carving of Pudukkottai).
B	I	3	Half ..	Models of water-lifts and agricultural implements.
B	II	1	Quarter ..	*Ocimum sanctum* and *Curcuma longum*.
G	I	1	Do. ..	Bunch of quartz crystals.
G	I	2	Do. ..	Fossil *Alectryonia* sp.
P	I	1	Do. ..	Coat-of-arms of the Toudaimans.
Z	I	1	Do. .	Short-toed Eagle.
Z	I	2	Do. ..	Macaque and Langur monkeys.
Z	I	3	Do. ..	Flying foxes.
Z	I	4	Do. ..	Butterflies in the field.
Z	II	1	Half ..	Turbinarian and Madreporarian corals.
Z	II	2	Do. ..	Saw–fish.
Z	II	3	Do. ..	Starred tortoises.
Z	II	4	Do. ..	Some common birds.

MISCELLANEOUS.

EDUCATION AND PUBLIC HEALTH DEPARTMENT

(Education.)

G.O. No. 674, 6th May 1964

Museums—Administration Report of Government Museums at Madras and Pudukkottai, and National Art Gallery, Madras, for the year 1961–62—Recorded.

READ—the following paper :—

From the Superintendent, Government Museum, Madras, dated 26th May 1962, No. 3031/62-E.

Order—No. 674, Education, dated 6th May 1964.

Recorded.

J. ANJANI DAYANAND,
Deputy Secretary to Government.

To the Superintendent, Government Museum, Madras-8.
„ the Director of Stationery and Printing, Madras-1.
„ the Accountant-General, Madras-18.
„ the Director-General of Archaeology in India, New Delhi.
„ the Revenue Department.
„ the Industries, Labour and Co-operation Department.
„ the Librarian, Madras Legislature Library, Madras-9.
„ the Librarian, Secretariat Library, Madras-9.